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AN ANALYSIS OF THE UNIVERSITY PLACEMENT
INTERVIEW AND AN INVESTIGATION OF ONE OF
ITS INFORMATION-EXCHANGE FUNCTIONS

by

JACK WILLIAM ONDRACK

A THESIS

SUBMITTED TO THE FACULTY OF GRADUATE STUDIES
IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE DEGREE
OF MASTER OF BUSINESS ADMINISTRATION

FACULTY OF BUSINESS ADMINISTRATION AND COMMERCE

EDMONTON, ALBERTA

OCTOBER, 1966

UNIVERSITY OF ALBERTA
FACULTY OF GRADUATE STUDIES

The undersigned certify that they have read,
and recommend to the Faculty of Graduate Studies
for acceptance, a thesis entitled An Analysis of the
University Placement Interview and an Investigation of
One of Its Information-Exchange Functions submitted by
Jack William Ondrack in partial fulfilment of the
requirements for the degree of Master of Business
Administration.

ABSTRACT

This study is concerned with determining the importance graduating seniors attach to various decision factors in taking a position with a firm, and the perception and retention of this information by recruiters gained through placement interviews.

The utility of the college placement interview is discussed at length, through a review of the contemporary literature. In addition, the study reports on an empirical investigation designed to determine the factors considered to be important by graduating seniors in choosing a position with a firm. The fifteen factors thought to be important are ranked by samples of graduating seniors in each of an arts, engineering and commerce faculty at a university. Further, campus recruiters are asked to rank the factors in the order they believe most students would choose. The factors "opportunity to do work I prefer", "chances for position advancement", and "size of beginning salary" are believed to be important by both students and recruiters. "Activities of firm in community service", "title of job or position" and "fame or status of firm" are considered to be unimportant by both students and recruiters.

The various rankings are compared to assess the recruiters' conception of the students' interests, and by

inference, the efficacy of the college placement interview in this aspect of information exchange.

It is concluded that the factors used do indicate what students consider in choosing a position with a firm; but they do not satisfactorily indicate the degree to which the interview was useful in conveying this information accurately to recruiters.

ACKNOWLEDGMENTS

I wish to express my sincere thanks to Dr. C. Brian Williams, Supervisor, and the other members of the committee, Dr. W. A. S. Smith and Mr. Charles A. Lee for their help in the preparation of this study.

Appreciation is extended to the National Employment Service University of Alberta Student Placement Office and particularly its head, Mr. John E. LeMay, for aid in the collection of data.

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CHAPTER I

INTRODUCTION: THE NATURE AND IMPORTANCE OF THE PROBLEM

I. THE INTERVIEW

The interview is an oral, face-to-face interaction. It differs from other communications of this type such as lectures, conversations, and interrogations in that while structured it is characterized by voluntary participation and freedom of action.

The formal interview is firmly institutionalized in contemporary business practice. It often marks critical junctures in the lives of practically all individuals in modern organizations. Formal interviews are usually focused; that is, they have specific functions or purposes, usually explicit. Bingham and Moore define the interview as merely "a conversation with a purpose".¹

The functions of interviews have been variously conceptualized. Thayer sees them primarily as the informative, evaluative, instructive and persuasive (or influence) functions;² Lopez broadly classifies

¹Walter Van Dyke Bingham and Bruce Victor Moore, How to Interview (New York: Harper & Brothers Publishers, 1941), p. 1.

²Lee O. Thayer, Administrative Communication (Homewood, Illinois: Richard D. Irwin, Inc., 1961), pp. 135-197.

personnel interviews into information-exchange, problem-solving, and decision-making communications according to interviewers' intentions.³ Both authors note the overlapping and interactive nature of these functions in interviewing practice. Bingham and Moore say the uses of the interview are fact finding, informing and motivating.⁴ Torre states that the early employment interview has three main purposes: ". . . obtaining information not provided or made clear by other means to acquaint the candidate with facts about the job(s) for which he may be considered, to give him information about working conditions, and to ascertain his interest in being considered for available positions."⁵ The later selection interview, in Torre's view, has a number of objectives:

The objectives of a selection interview, then, may be described in summary: To insure that the applicant fully understands the basis, the nature and the requirements of the post under discussion; to assess possible directions in which the post may be modified, if necessary, to meet the strengths and weaknesses of a particular candidate; to evaluate the job from the point of view of the applicant's career pattern and motivation; to delineate the scope and the limits of job satisfaction in the post from the applicant's point of

³ Felix M. Lopez, Jr., Personnel Interviewing: Theory and Practice (New York: McGraw-Hill Book Company, 1965), pp. 7-12.

⁴ Bingham and Moore, op. cit., p. 27.

⁵ Mottram Torre, ed. The Selection of Personnel for International Service (New York: World Federation for Mental Health, 1963), p. 67.

view; to achieve these objectives while providing a satisfactory experience for the applicant, whether or not he is selected.⁶

Beach cites the three objectives of the selection interview most commonly encountered in the personnel literature: gaining knowledge of the candidate, giving information about the job and its context, creating goodwill for the company through making the interview a pleasant experience for the candidate.⁷

Interviews are typically pre-arranged with respect to time and place. The roles of the participants are well-defined. The outcome of the interview, in terms of its purpose, is most often made explicit by the participants.

II. THE UNIVERSITY PLACEMENT INTERVIEW

The practice of finding employment for graduating students at institutions of higher learning has come to be called "college placement". Most colleges and universities have employment offices for this purpose, many of which subscribe to the Journal of College Placement, published on a non-profit basis by College Placement, Inc. of Bethlehem, Pennsylvania. Until June, 1965, the Canadian affiliate of

⁶ Ibid., pp. 79-80.

⁷ Dale S. Beach, Personnel: Management of People at Work (New York: The Macmillan Company, 1965), p. 243.

this organization was called the University Counselling and Placement Association. In July, 1965, it changed its name to the Canadian Association of Student Personnel Services. The 261 members of this association are employed in industry as recruiters (205), in universities (25), and in the National Employment Service (26). All members have the common interest of "placing" graduating students.⁸

The term "placement interview" has a unique meaning when used by these people. In normal personnel parlance, recruitment, selection and placement are considered respectively as the locating of personnel, the evaluation and hiring of personnel, and the matching of personnel to jobs.⁹ College placement, however, refers to the placement

⁸It is interesting that an employer-dominated organization should dominate a "Student Personnel Services" organization. Mueller (and others) writing on student personnel services discuss such topics as admissions; housing; faculty advisers; campus programs for physical and mental health; college unions; student government and publications; discipline; morale; religious programs; romance, dating and marriage; fraternities and sororities; financial aid; and foreign students. Placement is given very little consideration. Mueller concludes her discussion of placement in two pages, stating that placement is growing away from the other services in a distinct professional and ethical environment. Kate Hevner Mueller, Student Personnel Work in Higher Education (Boston: Houghton Mifflin Company, 1961), pp. 481-482 et passim.

⁹Paul J. W. Pigors and Charles A. Myers, Personnel Administration: A Point of View and a Method (New York: McGraw-Hill Book Company, 1965), pp. 360-374; Roger Bellows, Psychology of Personnel in Business and Industry (Englewood Cliffs, N. J.: Prentice-Hall, Inc., 1961),

of students with employers, not jobs. From the employer's point of view, therefore, it is recruitment and selection.

This point could be a source of confusion. The college graduate is very often not "placed" in a job until some time after hiring. Often training, orientation and testing programs intervene before the graduate is certainly "placed" in a job.

"Placement interview", then, has a bit of a euphemistic ring to it; but it nevertheless has a precise enough meaning when it is put in the university context. The employer may think of it as a selection interview for the purpose of hiring soon-to-be-graduated university students.

pp. 209 ff.; George Strauss and Leonard R. Sayles, Personnel: The Human Problems of Management (Englewood Cliffs, New Jersey: Prentice-Hall, Inc., 1960), pp. 427-457; Milton M. Mandell, The Selection Process: Choosing the Right Man for the Job (New York: American Management Association, Inc., 1964), p. 12; Roy Willmarth Kelly, Hiring the Worker (New York: The Engineering Magazine Co., 1919), pp. 57-122; Thomas Arthur Ryan and Patricia Cain Smith, Principles of Industrial Psychology (New York: The Ronald Press Company, 1954), p. 25; and Major H. S. M. Carver, Personnel Selection in the Canadian Army (Ottawa: Directorate of Personnel Selection, National Defence Headquarters, 1945), pp. 2-3.

All but the last two of these authors use these words in these senses. Ryan and Smith use the words "placement" and "classification" synonymously. Another notable exception to normal personnel usage of these words occurs in Personnel Selection in the Canadian Army, where "selection" is used in the usual sense of "placement". The Army "selects" individuals that they already have in their pay for various jobs and postings.

The evaluative and persuasive functions of interviews are central to the placement interview. They contribute to the outcome of the interview, or interviews, decisions by the parties. The communication of information perceived to be relevant to evaluation (to decision criteria) is the central process of the placement interview.

In evaluative terms, the placement interview is less one-sided than the normal selection interview in which an applicant seeks a specific job and the interviewer assesses his suitability for that job. That is, the student is normally interviewing a number of prospective employers from whom he may receive a number of offers. There is more emphasis in the placement interview on favourably impressing the applicant with what the employer and the job have to offer. The applicant in the selection interview is apparently largely sold on the company, and the type of position, or he would not be applying. Much of the literature on the evaluation interview is concerned with validity criteria for one-sided selection.

III. A RATIONALE FOR THE INTERVIEW

The interview is a nearly universal practice in selection for employment.¹⁰ There is a great deal of

¹⁰W. D. Scott, R. D. Clothier, and W. R. Spriegel, Personnel Management (New York: McGraw-Hill Book Company,

evidence to suggest that it is nevertheless markedly deficient as an evaluative device. Most of this evidence concerns the reliability and validity of the interview.¹¹ That is, different interviewers will not reliably choose the same candidate for a given position.¹² Nor will the same interviewer reliably make the same decision if the information regarding a candidate is present in a different sequence or context.¹³

The validity of the interviewer's evaluation is undermined if the criteria he uses for selection of a candidate are not appropriate for adequate performance on the job, or "success" within the company. The problem of choosing criteria is a complex one, particularly with the

1961), p. 72.

¹¹Ralph F. Wagner, "The Employment Interview: A Critical Summary," Personnel Psychology, 1949, 2, 17-46. Twenty-five of 106 articles on interviews were of an experimental nature; twenty of these concerned reliability and/or validity; and Eugene C. Mayfield, "The Selection Interview: A Re-Evaluation of Published Research," Personnel Psychology, 1964, 17, 239-260.

¹²R. S. Woodworth, "Psychological Experience with the Interview," Journal of Personnel Research, 1925, 4, 162-165; H. Gulliksen, Theory of Mental Tests (New York: John Wiley & Sons, Inc., 1950), pp. 193-218; and J. P. Guilford, Psychometric Methods (New York: McGraw-Hill Book Company, Inc., 1954), p. 279.

¹³J. W. Bruner, "On Perceptual Readiness," Psychological Review, 1957, 64, 123-152; and G. Smith, "Visual Perception: An Event over Time," Psychological Review, 1957, 64, 306-313.

university graduate who is often chosen for his ability to benefit the company in an indefinite capacity in the distant future. When objective criteria have been experimentally set, interviewers' choices have been found wanting. That is, the interviewer does little better through selection by interview than he could have done by actuarial methods.¹⁴

Lopez points out that validity criteria are often not correlated.¹⁵ Therefore the value of statistical validity is limited. This fact, coupled with the doubtful constancy over time of many indicators of face validity, magnifies the problem of choosing criteria.

In spite of the protests of some experimenters,¹⁶

¹⁴ Edwin E. Ghiselli, "Worker Selection: Concepts and Problems," Personnel Psychology, 1956, 9, 1-6; Bellows, op. cit., p. 238; and Laurence Lipsett, Frank P. Rodgers, and Harold M. Kentner, Personnel Selection and Recruitment (Boston: Allyn and Bacon, Inc., 1964), p. 94.

¹⁵ Lopez, op. cit., p. 221.

¹⁶ H. L. Hollingworth, Judging Human Character (New York: D. Appleton & Co., 1922), p. 66; M. S. Vitelles, Industrial Psychology (New York: W. W. Norton, 1932), p. 170; G. W. England and D. G. Patterson, "Selection and Placement: The Past Ten Years," in H. G. Heneman, Jr., et al. (eds.), Employment Relations Research (New York: Harper & Row, Publishers, 1962), p. 62; Marvin D. Dunnette, "Personnel Management" in P. R. Farnsworth, O. McNemar and Q. McNemar (eds.), Annual Review of Psychology, 1962, 13, (Palo Alto: Annual Reviews, Inc., 1962), p. 291; and Daniel Sydiah, "Interviewer Consistency in the Use of Empathic Models in Personnel Selection," Journal of Applied Psychology, 1962, 46, 344-349.

the interview continues to be very widely and indiscriminately used and trusted in selection. Reasons for its popularity have been advanced: Ghiselli and Brown note the extensive reliance personnel officers place on the interview as a means of assessment;¹⁷ Bingham, Moore and Gustad note its supplementary benefits of giving information and establishing friendly relationships for the company;¹⁸ Bellows and Estep stress the selection interview's role as an early communications device for management;¹⁹ Strauss and Sayles also value the interview's two-way nature.²⁰ Lopez states that the interview has unique flexibility and capacity to deal with "the broader construct of relevancy which includes many variables important to the overall decision--administrative feasibility, cost, community and employee relations, recruitment attractiveness, face validity, and statistical validity."²¹

¹⁷ Edwin E. Ghiselli and Clarence W. Brown, Personnel and Industrial Psychology (New York: McGraw-Hill Book Company, Inc., 1948), p. 123.

¹⁸ Walter Van Dyke Bingham, Bruce V. Moore and John W. Gustad, How to Interview (New York: Harper & Brothers, 1959), p. 97.

¹⁹ Roger M. Bellows and M. Frances Estep, Employment Psychology: The Interview (New York: Rinehart & Company, Inc., 1954), p. 10.

²⁰ Strauss and Sayles, op. cit., p. 233.

²¹ Lopez, op. cit., p. 221.

If the interview is to be continued in use as a selection device, then we must ask, "How can it be improved?" Some recent research directed toward this end has been concerned not with assessing the reliability and validity of the selection interview as a measuring instrument, but rather with discovering what the interview is. Until we know what really occurs in interviews, there is little possibility for modification to attain specific ends.

IV. THE PSYCHOLOGY OF THE INTERVIEW

The psychodynamics of interviewing have received little direct study. Most of the theoretical questions in this area would likely need referral to social psychologists.

Work specifically done on actual interviews has understandably (due to the effects of observers) been largely confined to the period since the advent of the tape recorder. Helsel, for instance, did a content analysis from recorded transcripts of the type of questions and categories of information discussed in employment interviews for the selection of office personnel.²²

²² Janet Helsel, A Study of Employment Interviewing Practices Used in the Selection of Office Personnel with Implications for Business Teachers (Doctoral Thesis, Northwestern University, Evanston, Illinois, 1959). Ann

Webster summarizes the findings of five doctoral dissertations concerned largely with tape recordings of Armed Services selection interviews made in the carrying out of a Defence Research Board project. The nature of the decision-making process in the interview was under examination in this work.²³ Pittenger, Hockett and Danehy taped and transcribed the first five minutes of initial psychiatric interviews, linguistically coded the results and examined them systematically.²⁴ They mentioned the regrettable technological shortcomings that precluded the recording of communications through the other sensory modalities. Only visual phenomena could be partially taken into account through the medium of the sound film. Olfactory, taste and touch recordings are impossible. The film was not made for lack of a kinesicist (an analyst of body motion) to aid in the study.

In Chapter II the utility of the employment interview, some recommendations of the "how-to-do-it"

Arbor: University Microfilms, Inc., 1966).

²³ Edward C. Webster, in collaboration with C. W. Anderson, Areta H. Crowell, Patricia Rowe, B. M. Springbett, and D. Sydiah, Decision Making in the Employment Interview (Industrial Relations Centre, McGill University. Montreal: The Eagle Publishing Co., Ltd., 1964).

²⁴ Robert E. Pittenger, Charles F. Hockett and John H. Danehy, The First Five Minutes (Ithaca, New York: Paul Martineau, Publisher, 1960).

authors, and the value of traditional and newer approaches will be discussed.

V. A PROBLEM FOR RESEARCH

To discover what occurred during an interview, "The weakest sort of observational procedure is to ask one of the participants, after an interview, for an account of what happened."²⁵ The study of perception indicates that objective stimuli are very imperfectly recalled. The subjective correlate of an objective phenomena has become, through perceptual and retentive mechanisms, quite another thing. Hence the increasing and logical emphasis on indirect methods for study of the interview.

Kahn and Cannell suggest an indirect indicator of the interviewer's skill.²⁶ Because exchanges of specific types of information constitute large parts of specific types of interviews, the more able interviewer, the "good listener" lauded by the employment interviewing "how-to-do-it" literature²⁷ should more accurately perceive and

²⁵ Ibid., p. 4.

²⁶ Robert L. Kahn and Charles F. Cannell, The Dynamics of Interviewing (New York: John Wiley & Sons, Inc., 1960), pp. 166-202.

²⁷ Bingham and Moore, op. cit., p. 32; Carl R. Rogers, Client-Centered Therapy: Its Current Practice,

retain information passed along to him in the interview by the respondent. If the information is indeed specific and can somehow be objectively identified, it should be possible to ask the interviewer for his recollections regarding the information concerned, compare them with the actual information given by the respondent, and thereby assess the interviewer's ability to accurately perceive and retain a particular type of information offered to him in the interview.

The author undertook an investigation of this facet of interviewing in the university placement situation. The type of information considered was a group of fifteen factors thought to be important in the decisions of students taking employment. For purposes of easy identification, they will hereinafter be called the "job factors" or "decision factors". They were originally conceived and isolated by Bunin and Odegaard on the basis of frequency of mention in previous studies of the employment decisions of graduating college seniors.²⁸ Short statements were used in an attempt to

Implications, and Theory (Boston: Houghton Mifflin Company, 1951), pp. 40-41, 54; and Strauss and Sayles, op. cit., p. 227.

²⁸Sanford M. Bunin and Carl J. Odegaard, "Relative Importance of Job Factors to Graduating College Seniors," University of Washington Business Review, April, 1961, 20, 50-56.

capture the meaning of distinct and relevant decision criteria.

In the present study graduating seniors were asked, as part of a larger questionnaire, to rank the factors in the order of their importance to them in evaluating a position with a firm. It was expected on the basis of Bunin and Odegaard's and Bunin and Scheyer's²⁹ findings that there would be considerable agreement among the students, and particularly among certain sub-groups, on the rankings of the factors. If this were in fact found, then a specific piece of information commonly discussed in and important to a great many placement interviews would be identified. The objective piece of information would of course be a statistical representation of the collective opinion of a group of interview respondents.

If a similar statistical representation of the collective opinion of the group of interviewers regarding this piece of information could now be made, then an assessment of the interviewers' abilities to accurately perceive and retain a particular type of information offered to them in the interview would be possible.

²⁹ Sanford M. Bunin and Gretchen Scheyer, "Campus Recruiters and Graduating Seniors," University of Washington Business Review, June, 1961, 20, 50-59.

Consequently the interviewers were asked to rank the factors in their order of importance to the student.

A number of conceptual and practical weaknesses, limitations and difficulties are evident in this indirect approach to study of the information-exchange process of the interview. They will be discussed in the chapters dealing specifically with the questionnaire study.

Chapter III orients the investigation done, and outlines the purposes of the study.

Chapter IV deals with the sources of data, methods of procedure and treatment of findings.

Chapter V lays out the statistical analyses. Null hypotheses are put forth. Tables and statistical material are explained and discussed.

Chapter VI is concerned with the limitations of the study undertaken and some likely avenues for further research.

Chapter VII is a summary of findings and conclusions.

CHAPTER II

THE UTILITY OF THE EMPLOYMENT INTERVIEW

I. INTRODUCTION

"A very intense faith is placed by personnel officers in this method (the interview) of assessing applicants. Although other selection procedures may be judged critically and rejected, one seldom finds the interview rejected, even after it has been carefully evaluated and found deficient."¹

The primary deficiency of the interview as it has been empirically investigated is lack of validity (in the sense the word is used in psychological testing). Broadly speaking, a "valid" psychological test measures what it purports to measure. Validity is considered to be the ultimate criterion of value for a psychological test through reasoning that follows from E. L. Thorndike's maxim, "If a thing exists, then it exists in some amount. If it exists in some amount, then it can be measured."² The extent to which a test measures the psychological

¹Edwin E. Ghiselli and Clarence W. Brown, Personnel and Industrial Psychology (New York: McGraw-Hill Book Company, Inc., 1948), p. 123. Parentheses not in original.

²E. L. Thorndike, An Introduction to the Theory of Mental and Social Measurements (Teachers College, Columbia University. Lancaster, Pa.: The New Era Printing Co., 1916) pp. 1-6.

"thing" it is supposed to measure is the extent of its validity.

Webster regrets this type of empirical orientation to the interview because it:

. . . leads to an almost exclusive concern with measuring the relations between criteria and predictive categories, and literally no attention has been given to the psychological processes in the interview. . . . There can be no question that problems of reliability and validity are of fundamental importance to the interview, but there is an indirect as well as a direct approach to them. Until the factors which play a systematic role in determining the final decision of the interviewer are revealed, the limits of reliability and validity cannot be known.³

This chapter will be concerned with the important matters of validity and reliability, and more generally with a pragmatic approach to interviewing. It is concerned with what the practitioner wants to know--the advantages and disadvantages of particular practices.

II. VALIDITY

Vernon offers a view of validity with operational meaning for the interview. It is, ". . . that a test measures only itself, but that it is valid in so far as it can be shown to correlate with other observable

³Edward C. Webster in collaboration with C. W. Anderson, Areta H. Crowell, Patricia Rowe, B. M. Springbett, and D. Sydiah, Decision Making in the Employment Interview (Industrial Relations Centre, McGill University. Montreal: The Eagle Publishing Co., Ltd., 1964), p. 2.

behavior. . . . That is, its validity lies in the inferences we are entitled to make from it."⁴

Study of the selection interview's validity has been conducted generally by specifying some measures of job success and comparing candidates ranked by interviewers with their achievement on these measures. Those candidates ranked higher by interviewers prior to job performance must do relatively better on the criterion measures of job success for the interview to be a valid selection process.

Criteria commonly used are job performance rankings by supervisors,⁵ length of time with the organization or on the job,⁶ and size of salary or other quantitative measures assumed to indicate "job success".

III. RELIABILITY

Reliability refers to the stability of interview

⁴Philip E. Vernon, Personality Assessment: A Critical Survey (London: Methuen & Co. Ltd., 1964), p.213.

⁵Arne Trankell, "The Psychologist as an Instrument of Prediction," Journal of Applied Psychology, 1959, 43, 170-175; Robert Glaser, Paul A. Schwarz, and John C. Flanagan, "The Contribution of Interview and Situational Performance Procedures to the Selection of Supervisory Personnel," Journal of Applied Psychology, 1958, 42, 69-73; and Forest O. Bell, Alvin L. Hoff and Kenneth B. Hoyt, "A Comparison of Three Approaches to Criterion Measurement," Journal of Applied Psychology, 1963, 47, 416-418.

⁶Earl C. Butterfield and Sue A. Warren, "Prediction of Attendant Tenure," Journal of Applied Psychology, 1963, 47, 101-103; and Trankell, op. cit.

outcome, apart from its relation to other behavior or its predictive ability.

The reliable evaluation interview should result in the same assessments when repeated; that is, the same interviewer should reach the same decisions regarding the applicant.

Two or more interviewers should reach the same decisions regarding identical applicants for the same position.

The evaluation made on the basis of one half of the interview should be the same as the evaluation made on the basis of the other half; or, similarly, there should be a consistent response pattern throughout the interview to a particular property of the applicant to be assessed if the interview is to be entirely reliable. In psychological testing the split-half and Kuder-Richardson techniques are used to assess internal consistency of test instruments.⁷ The relevance of this aspect of reliability for the interview is difficult to gauge.

IV. THE RELIABILITY AND VALIDITY ENTERPRISES IN SELECTION INTERVIEWING

It should be noted that reliability and validity are

⁷ Lee J. Cronbach, Essentials of Psychological Testing, 2nd ed., (New York: Harper & Brothers, 1960), p.141.

related. That is, the validity of a measure is limited by its reliability.⁸ Interviewer error limits the power of interviewer predictions.

Split-half reliability (or internal consistency, or equivalence, as it is variously called in psychological testing) is systematically undermined in the evaluative interview by the importance of primacy of information in decision-making. First impressions bias the interviewer's perception and cognition of subsequent responses from the candidate. In the selection interview specifically this phenomenon has been demonstrated by Springbett.⁹ More generally, "When contradictory information is presented in a single communication, by a single communicator, there is a pronounced tendency for those items presented first to dominate the impression received."¹⁰

It is obvious that the respondent's behavior in the

⁸ Ibid., p. 132:

"There is a rule which states how reliability limits validity: The correlation between the test and an independent criterion can never be higher than the square root of the correlation between two forms of the test. For example, if reliability is .64, validity cannot exceed .80."

⁹ B. M. Springbett, "Factors Affecting the Final Decision in the Employment Interview," Canadian Journal of Psychology, 1958, 12, 13-22; and Edward C. Webster, "Decision Making in the Employment Interview," Personnel Administration, 1959, 22, 15-22.

¹⁰ Carl I. Hovland, The Order of Presentation in Persuasion (New Haven: Yale University Press, 1957), p. 133.

interview is not likely to be entirely uniform over the time taken for the interview. On the basis of chance alone this is true. When it is further considered that some individuals take longer than others to interact freely and spontaneously with strangers, a further systematic undermining of interview reliability is evident. The early minutes, and indeed the entire interview are only very small and unrepresentative samples of the respondents' behavior. It is dangerous to generalize from samples of this size to much larger segments of behavior such as job performance. That a sample of behavior taken in an interview may be highly atypical and misleading is admitted by social researchers.¹¹

The unreliability of the interview as a measuring instrument has been noted, although demonstrations of its invalidity are more striking.

Hollingworth's early study of interviewer reliability lent impetus to doubt regarding the interview's efficacy as an evaluative device.¹² He had twelve senior, experienced sales managers independently rank fifty-seven

¹¹ Robert E. Pittenger, Charles F. Hockett and John H. Danehy, The First Five Minutes (Ithaca, New York: Paul Martineau, Publisher, 1960), p. 249; and Philip E. Vernon, Personality Tests and Assessments (New York: Henry Holt and Company, 1953), p. 21.

¹² H. L. Hollingworth, Vocational Psychology and Character Analysis (New York: D. Appleton & Co., 1929).

candidates on suitability for positions as salesmen. Every candidate received rankings ranging nearly from the top to the bottom of the list.

The unreliability of the interview in Hollingworth's study could be attributed either to the interviewers or the candidates, or both. Crissy, writing twenty-three years later, could find no experimental evidence in the literature capable of convicting or acquitting either of the parties of unreliable behavior.¹³ Crissy states,

There are three fundamental aspects to the question of interview reliability: (1) intra-rater consistency, i.e., the agreement of the interviewer with himself insofar as his appraisals of interviewees are concerned; (2) inter-rater consistency, i.e., the agreement among interviewers insofar as their respective judgments of interviewees are concerned; (3) the consistency of behavior elicited in the interview, i.e. the extent to which the interviewee behaves and responds in the same way to similar stimuli in successive interviews.¹⁴

For the first and third types, Crissy was unable to find any empirical evidence. For the second, inter-rater consistency, a master's thesis by Sternburg is cited which found the judgments of several interviewers on applicant traits to have intercorrelational values from .15 to .71.

In the years since 1952 little has been done to dispel the uncertainty of the prospect of ever gaining

¹³ W. J. E. Crissy, "The Employment Interview: Research Areas, Methods and Results," Personnel Psychology, 1952, 5, 73-85.

¹⁴ Ibid., p. 74.

interview reliability. In 1965, Lopez wrote:

In modern times, however, the evidence of the fallibility of subjective, interpersonal judgment has been so overwhelming that considerable research effort has been devoted to the development of more scientific approaches to the problem of the selection and placement of employees. To improve the quality of the selection process and hence the employment decision, emphasis has been placed on a more objective approach to the description, and evaluation, and the prediction of job performance. Aptitude tests, self-descriptive personality inventories, projective personality tests, situational games, weighted biographical questionnaires, and structured interviews have been developed as more appropriate and more reliable measures of an employment prospect's abilities, achievement, attitudes, and social skills.

Despite overly optimistic claims in some quarters, no single one of the aforementioned instruments has proved to be the final answer to the selection question. But in conjunction with other instruments, each contributes its proper share to the overall goal of a substantially reduced margin of error in selection decision-making.¹⁵

It has been shown that particular interviewers can very reliably make systematic errors. An early demonstration of this phenomenon was conducted by Rice. Two interviewers sought to discover why a number of individuals were impoverished. The advocate of temperance found sixty-two per cent of the cases to be due to drink, and seven per cent due to industrial conditions. The other interviewer, a socialist, found thirty-nine per cent of the cases to be

¹⁵Felix M. Lopez, Jr., Personnel Interviewing: Theory and Practice (New York: McGraw-Hill Book Company, 1965), p. 212.

due to industrial conditions, and twenty-two per cent to excessive drinking.¹⁶ More recent findings by Sydiah indicate that interviewers among Canadian Army Regular Force personnel officers tend to make errors consistently through using empathy as a basis for decision making.¹⁷ While this means that a particular selection officer's decisions would be reliably biased, the overall selection process would be unreliable due to differences in the empathic models used by different interviewers. Sydiah recommends: "Explicit, actuarial bases of decision making in the interview. . .", and abandonment of implicit personality theories by interviewers.¹⁸

The thorniest problem in validating the selection interview is the choice of criterion measures that adequately describe "success" on the job. Tolerably high validity coefficients have been obtained in interviewing, and more particularly in testing suitability for very well described jobs that change little over time and markedly favour candidates with particular traits. The interviewer

¹⁶S. A. Rice, "Contagious Bias in the Interview: A Methodological Inquiry," American Journal of Sociology, 1929, 35, 420-423.

¹⁷Daniel Sydiah, "Interviewer Consistency in the Use of Empathic Models in Personnel Selection," Journal of Applied Psychology, 1962, 46, 344-349.

¹⁸Ibid., p. 344.

or tester rates the candidate on these traits at the time of interviewing. The ratings are subsequently correlated with some arbitrary indicators of on-the-job performance. Wagner, in his review of the literature in 1949 mentions results ranging from .16 to .87 for overall ratings, and from .09 to .73 for particular trait ratings.¹⁹

The degree of difference between criterion measures and actual "success" is of course vital to validity measurement. Ronan illustrates some of the difficulties involved.²⁰ Trades apprentices and journeymen were rated on eleven criterion measures: shop rating (twelve categories), school rating (six categories, two raters), mathematics grade, absence index, injury index, lost time accidents, grievances, disciplinary actions, promotions, supervisory ratings and personality disorder. Ronan admits that, ". . . the selected measures barely scratched the surface when one considers the total employee at work in a complex industrial organization." He notes, "That various criterion measures bear little or no relation is shown again in this research as in earlier studies. . . .", and that the study ". . . contains no specific measure of job

¹⁹ Ralph Wagner, "The Employment Interview: A Critical Summary," Personnel Psychology, 1949, 2, 17-46.

²⁰ W. W. Ronan, "A Factor Analysis of Eleven Job Performance Measures," Personnel Psychology, 1963, 16, pp. 255-267.

skill." The merit of these criterion measures seems to be their amenability to quantitative analysis, and, in Ronan's hope, a stability over time--if not of relevance, at least of specification.

There is considerable doubt, then, that objective criterion measures can adequately represent job success, much less the overall contribution to the organization of individuals. Even in the relatively uncomplicated area of skilled trades, Ronan, for example, was unable to surmount the obstacles to representativeness. In assessing the performance of college graduates, "success" or "contribution to the organization" in all likelihood has a more abstract meaning. The indicators of such success occur at higher levels, over longer periods, and in a more complex setting.

The attention given to the character of criteria over time bears a distinct relation, in the author's view, to the accountant's pursuit of quantification of the business's personnel resources. "Conceptually, the ultimate criterion can apparently be defined as 'the total worth of a man to the company--in the final analysis.' Such an abstraction is not measurable--at least not until the man's total career with an organization has finally been terminated."²¹ Accountants are confronted with the

²¹Robert M. Guion, "Criterion Measurement and

task of measuring, in dollars, the progress of business organizations over particular intervals. They cannot know for certain how the business has fared unless it is liquidated completely and a final reckoning made with only dollars involved. However, they make assessments from time to time (most commonly once a year) of the firm's assets and liabilities and arrive at a dollar figure representing their best estimate of the firm's profit or loss for the period under consideration. Although the know-how and ability of a firm's personnel is undeniably an asset, present accounting practice does not directly assess its worth. On the contrary, such "investment" as would logically appear in an asset account is usually expensed in the period of its outlay. Recruiting, selection and training costs are therefore not considered as benefitting subsequent periods. Some accounting theorists advocate at least an attempted measurement of the size of that very important (but highly qualitative) asset, personnel.²²

As long as businesses are economic organizations, and their performance is measured primarily in dollars, a dollar assessment of the contribution of individuals must

Personnel Judgments," Personnel Psychology, 1961, 14, 141-149.

²² Mandel Gomberg and Arthur Farber, "The Balance Sheet of the Future," The Accounting Review, 1964, 39, 615-617.

logically be possible if there is to be any meaningful assessment possible. Conceptually, therefore, there exists some calculus, no doubt extremely complex, that describes quantitatively the contribution of each member of the business organization to that organization's overall performance. The theoretical accountant's counterpart for the psychologist's ultimate criterion measure of validity is the individual's net contribution to the firm over the total length of his association with the firm, expressed in dollars.

In research practice, criterion measures of validity are nearly always expressed in terms of some assumed and indefinite relation to "job success". "Job success", in turn, bears an indefinite relation to "contribution of the individual to the firm over the entire length of their association", the conception of validity considered in the preceding paragraph. Theoretical validity and common criterion measures are obviously only distantly and indefinitely related in this context.

A further difficulty with criterion measures is their variability over time. Performance by individuals on these measures may vary markedly after a month, a year, or five years. Consequently a selection procedure validated against criteria at each of these times will appear to have three different validities. This phenomenon has been

demonstrated by Worbois, Ghiselli and Haire, and Bass.²³

Usually validity studies have an extremely narrow application. They have few implications beyond the particular situation considered in the study. Practically speaking, they are of little or no value to other firms, even those in the same industry. Wagner, in his review of the literature, notes that "The validity and reliability of the interview may be highly specific both to the situation and to the interviewer."²⁴

Mayfield, in his more recent review of the literature, notes the lack of comparability of interview researches:

One of the reasons for the apparent lack of useful knowledge about the selection interview is that most experimental studies have been undertaken to determine the validity of an interview in a particular situation. There is no question that this type of research is very practical and very necessary. However, it does not provide an answer to the question of why a given interview works or doesn't work. Therefore, such

²³S. M. Worbois, Predicting Performance of Substation Operators," Journal of Applied Psychology, 1951, 31, 15-19; B. M. Bass, "Further Evidence on the Dynamic Character of Criteria," Personnel Psychology, 1961, 14, 93-97; Edwin E. Ghiselli and M. Haire, "The Validation of Selection Tests in the Light of the Dynamic Character of Criteria," Personnel Psychology, 1960, 13, 225-231. Ghiselli et al state:

"If the desired criterion is ultimate or total performance, there is some question whether an initial criterion measure will itself be a good predictor. If not, validation--against the early criterion is no validation at all."

²⁴Wagner, op. cit., p. 42.

studies by themselves do not give us the information necessary to fully understand and improve interviews.²⁵

Mayfield goes on to describe a number of experimental designs which do not yield an understanding of their subject matter sufficient to yield implications of a more general nature, i.e. of relevance for other situations. The research designs he cites are the traditional approaches taken to the study of interview validity and reliability.

Wagner (1949) and Mayfield (1964) have made the most significant surveys of the literature regarding selection interviewing for employment. Wagner's first two conclusions were:

1. A great deal of confusion exists as to what can and cannot be accomplished by the interview.

2. Research on the interview is much needed.²⁶

Mayfield notes that little has been learned about the interview since Wagner's review, and specifically suggests a de-emphasis of traditional validity and reliability research in favour of two emerging approaches: study of small units of the interview, or microanalysis; and study of the decision-making processes of the interview. In the

²⁵ Eugene C. Mayfield, "The Selection Interview: A Re-Evaluation of Published Research," Personnel Psychology, 1964, 17, 239-260, p. 241.

²⁶ Wagner, op. cit., p. 42.

former connection he cites the work of Chapple, Bales, Daniels and Otis, Borgatta and Bales, Muthard, Dipboye, Robinson, and Matarazzo, Matarazzo, Saslow and Phillips.²⁷ In the latter connection Mayfield cites Webster, Springbett, Anderson, Sydiah and Rowe.²⁸

²⁷ E. D. Chapple, "The Interaction Chronograph: Its Evolution and Present Application," Personnel, 1949, 25, 295-307; R. F. Bales, Interaction Process Analysis: A Method for the Study of Small Groups (Cambridge: Addison-Wesley, 1950); H. E. Daniels and J. L. Otis, "A Method for Analyzing Employment Interviews," Personnel Psychology, 1950, 3, 425-444; E. F. Borgatta and R. F. Bales, "The Consistency of Subject Behavior and the Reliability of Scoring in Interaction Process Analysis," American Sociological Review, 1953, 18, 566-569; J. E. Muthard, "The Relative Effectiveness of Larger Units Used in Interview Analysis," Journal of Consulting Psychology, 1953, 17, 184-188; W. J. Dipboye, "Analysis of Counselor Style by Discussion Units," Journal of Counseling Psychology, 1954, 1, 21-26; Francis P. Robinson, "The Dynamics of Communication in Counseling," Journal of Counseling Psychology, 1955, 2, 163-169; and Ruth G. Matarazzo, J. D. Matarazzo, G. Saslow and Jeanne S. Phillips, "Psychological Test and Organismic Correlates of Interviewer Interaction Patterns," Journal of Abnormal and Social Psychology, 1958, 56, 329-338. I would add Janet Helsel, A Study of Employment Interviewing Practices Used in the Selection of Office Personnel with Implications for Business Teachers (Doctoral Thesis, Northwestern University, Evanston, Illinois, 1959. Ann Arbor: University Microfilms Inc., 1966).

²⁸ Webster, 1959 and 1964, op. cit.; Springbett, op. cit.; C. W. Anderson, "The Relation Between Speaking Times and Decision in the Employment Interview," Journal of Applied Psychology, 1960, 44, 267-268; D. Sydiah, "On the Equivalence of Clinical and Statistical Methods," Journal of Applied Psychology, 1959, 43, 395-401; and "Bales' Interaction Process Analysis of Personnel Selection Interviews," Journal of Applied Psychology, 1961, 45, 393-401; Patricia M. Rowe, "Individual Differences in Selection Decisions," Journal of Applied Psychology, 1963, 47, 304-307.

The value of the first, or microanalytic approach is as yet unknown, according to Mayfield, because it is being used for reliability studies almost exclusively. The second, or decision-making approach, is in Mayfield's view of prime importance. He feels it will answer the "how" and "why" questions regarding the interview, the most important failing of interview research to date.

Webster believes that investigation of the decision making process of the interview has a distinct advantage over traditional approaches.

The literature cited above (historical background of studies of interviewing) fails to relate errors of measurement to decision making models. This is an important omission because it should be possible to take rational steps to correct for error if correlates of decisions are established and the magnitude of their errors assessed. This is particularly important for descriptive models of decision making in order to explain why clinical predictions tend to add nothing to actuarial predictions. "The critical question is why inferences go wrong, not whether inference is a legitimate mode of test interpretation." (Cronbach, 1956).²⁹

In a different context, the ten-year study of case method medical education by M. L. Johnson Abercrombie generally confirmed her hypothesis ". . . that we may learn to make better judgments if we can become aware of some of

²⁹ Webster, 1964, op. cit., citing L. J. Cronbach, "Assessment of Individual Differences," in P. R. Farnsworth, ed., Annual Reviews of Psychology, 1956, 7, 173-196 (Palo Alto, Calif.: Annual Review, Inc., 1956). Parentheses not in original.

the factors that influence their formation.³⁰

In the field of psychological testing there is currently some dissatisfaction with the progress being made. Robert Ebel of the Educational Testing Service proposes that ". . . we stop beating our heads against a stone wall and step back to look for a way over it or around it":³¹

Validity has long been one of the major deities in the pantheon of the psychometrician. It is universally praised, but the good works done in its name are remarkably few. Test validation, in fact, is widely regarded as the least satisfactory aspect of test development. For this the blame is usually placed on the lack of good criterion measures. To assuage their guilt feelings about inadequate test validation, test constructors from time to time urge their colleagues to go to work on the criterion problem. . . . The basic difficulty in validating many tests arises, we believe, not from inadequate criteria but from logical and operational limitations of the concept of validity itself. We are persuaded that faster progress will be made toward better educational and psychological tests if validity is given a much more specific and restricted definition than is usually the case, and if it is no longer regarded as the supremely important quality of every mental test.³²

Ebel believes that the multiplex definitions of validity extant do not permit clear thinking in research; that validity has consistently proved to be the quality

³⁰M. L. Johnson Abercrombie, The Anatomy of Judgment: An Investigation into the Processes of Perception and Reasoning (London: Hutchinson & Co. Ltd., 1960), p. 17.

³¹Robert L. Ebel, "Must All Tests be Valid?" American Psychologist, 1961, 16, 640-647, p. 646.

³²Ibid., p. 640.

most difficult to attain in test development ("... when someone tries to do a job the wrong way, nature often teaches him his error by refusing to let the job be done"³³); that the physical sciences show no concern for the validity of their measurements, only discussing operational definitions and limitations of measurement. "To ask about the validity of the basic method of measurement, which provides the operational definition of the thing being measured, would seem to most physical scientists as it does to us to be asking a meaningless question."³⁴

The problem of criterion measures is not discussed or recognized by Wagner or Mayfield, but Ebel states that it is critical and often overlooked: "The ease with which test developers can be induced to accept as criterion measures quantitative data having the slightest appearance of relevance to the trait being measured is one of the scandals of psychometry."³⁵

McCord and Hodgson also criticize conventional criterion measures.³⁶

³³ Ibid., p. 641

³⁴ Ibid., p. 642

³⁵ Ibid.

³⁶ Mac McCord, "Observations on Validity Criteria: A Problem in Psychological Evaluation," Personnel Journal,

V. WHAT SHOULD THE INTERVIEW BE IN SELECTION?

What Should be Said? Some authors advocate rigid questionnaire type interviews:

An interview, regardless of its length or purpose, should be conducted according to a standardized form. This prevents aimless rambling, lengthy digressions, and the possibility of omitting important areas.³⁷

Research on the value of the interview for assessing personality and occupational fitness is reviewed. It is concluded that the most valuable interview is that which uses a standardized form, designed to assess complex, dynamic constellations of traits rather than relatively isolated, static traits.³⁸

The National Industrial Conference Board 1954 report, Recruiting and Selecting Employees, states that the trend is toward more rigid forms for employment interviews. Logical (not psychological) reasons are advanced for the planned interview.

If the interview is important and worth doing at all, it is argued, it is worth some forethought and planning. This means setting the stage and following through a prescribed course of action. The interviewer is ready for the applicant. He has the job

1963, 42, 286-288: "The inherent danger is that validity criteria may themselves lack validity!" (p. 288); Richard W. Hodgson, "Personality Appraisal of Technical and Professional Applicants," Personnel Psychology, 1964, 17, 167-187. Hodgson regrets the loss of information necessary in conventional studies (p. 186).

³⁷ Wagner, op. cit., p. 42.

³⁸ K. A. Yonge, "The Value of the Interview: An Orientation and a Pilot Study," Journal of Applied Psychology, 1956, 40, 25-31, p. 30.

specifications clearly in mind. He has learned as much as possible about the applicant in advance. He knows what additional information is needed that can best be obtained directly from the applicant during the interview. And he knows how it can be interpreted and evaluated in the light of the job requirements.³⁹

The authors suggest the possibility that "Eventually the objective approach will take over completely, putting the interviewer out of business!"⁴⁰

The recommendations of a number of authors may be contrasted with those of the structured-interview advocates.

This finding indicates that appraisers should encourage employees to express themselves during the appraisal interview. Appraisers can encourage employees to participate by using such nondirective techniques as reflecting feelings and eliciting ideas from appraisers through exploratory questions.⁴¹

Maier agrees with Kirk in advocating for selection the nondirective techniques put forth by Rogers for interviewing in counseling and therapy.⁴² Maier particularly wishes to point out the futility of a single

³⁹ National Industrial Conference Board, Inc., Studies in Personnel Policy, No. 144, Recruiting and Selecting Employees (New York: National Industrial Conference Board, Inc., 1954), p. 63.

⁴⁰ Ibid., p. 63.

⁴¹ E. Bruce Kirk, "Appraisee Participation in Performance Interviews," Personnel Journal, 1965, 44, 22-25, p. 25.

⁴² N. R. F. Maier, The Appraisal Interview: Objectives, Methods and Skills (New York: John Wiley & Sons, Inc., 1958), pp. 2-3; and Carl R. Rogers, Client-Centered Therapy: Its Current Practice, Implications, and Theory (Boston: Houghton Mifflin Company, 1951), p. 5.

structured form interview for the accomplishment of the diversity of objectives, some conflicting, that are nearly always a fact of the appraisal interview.

Oldfield states that in order to initiate and maintain rapport, the interviewer must attune and accommodate himself to the psychological processes of the respondent. There is little possibility that a structure decided on beforehand could anticipate entirely the progression of interactive processes that is the interview.⁴³

Sidney and Brown do not even mention the structured questionnaire-type interview in their discussion of selection.⁴⁴

Fear, in another how-to-do-it publication, gives his view of structuring interviews:

Types of Interviews. For all practical purposes, interviews may be divided into three types: the direct interview, the indirect interview, and the patterned interview. The direct interview is one in which the interviewer maintains tight control, generally firing a barrage of limited and specific questions at the interviewee. This is often referred to as the "question-and-answer approach". The technique enables one to amass a large body of factual data in a short period of time, but falls far short of the mark in

⁴³R. C. Oldfield, The Psychology of the Interview, 4th ed., (London: Methuen & Co. Ltd., 1951), esp. p. 67.

⁴⁴Elizabeth Sidney and Margaret Brown, The Skills of Interviewing (London: Tavistock Publications (1959) Limited, 1961), p. 73-78.

getting at the candidate's generalized attitudes, traits, and habit patterns. In the direct interview, the applicant is on his guard and hence usually screens his remarks, giving answers that are calculated in his opinion to place him in the best possible light. In this type of interview, the person usually feels "on the spot," with the result that the atmosphere is likely to become strained. Feeling like a man who has been cross-examined on the witness stand, the person frequently leaves with an unpleasant reaction to the interview situation.

In the indirect interview, there is usually very little control on the part of the interviewer. He permits the applicant to run with the ball as the latter sees fit, interjecting only occasional questions. True, this type of interview often results in findings that throw light on the candidate's attitudes, traits, and habit patterns. Since the man is permitted to talk about anything or everything that comes to mind, however, the discussion is almost completely unstructured and without any kind of system. This means that it is often quite impossible to cover all the important areas of the applicant's background within a reasonable period of time. Hence, the interviewer faces the task of making his decision on the basis of inadequate and incomplete information.

To our way of thinking, neither of the above two methods is appropriate to the business and industrial situation. Consequently, we favor the patterned interview which is actually a merger of both techniques. Here the conversation is guided adroitly by the interviewer, but the interviewee is encouraged to speak freely and at length about relevant topics. Control of the interview is maintained so that all important areas of the applicant's background can be covered systematically, but the information is obtained in an indirect manner. By adroit wording of comments and questions, and by reflecting the applicant's feelings, spontaneous information can be obtained without having to ask direct or pointed questions and without giving the applicant the feeling that he is being grilled or cross-examined. The patterned interview discussed in this book is referred to as the evaluation interview to distinguish it from other types of patterned interviews.⁴⁵

⁴⁵Richard A. Fear, The Evaluation Interview:

Richardson, Dohrenweld and Klein advocate another method of fence-sitting on this issue:

In line with our thesis that there is no one correct way to interview, we believe there is no one optimal set of interviewer characteristics. Rather, the skills required of the interviewer, his role, and his personal characteristics may vary widely, depending on the form of interview selected, its purpose, the subject matter, and the characteristics of the respondents.⁴⁶

The question of what should be said during the selection interview has obviously not been definitively answered. In the light of the research done, perhaps the most reasonable approach to the problem is the tailoring of an interview form to the particular situation in which it is to be used. Subsequently an assessment of its effectiveness can be made to the taste of the user.

For What Should the Interview Be Used? The fact that interviews are used to select people for everything from sandwich-board carrying to high-level executive functions is indicative of general and indiscriminate advocacy of the interview for selection purposes. Research has suggested more specific uses for the interview.

Wagner writes: "Finally, the interview as an evaluation tool may be useful in three situations:

Predicting Job Performance in Business and Industry (New York: McGraw-Hill Book Company, Inc., 1958), pp. 24-26.

⁴⁶ Stephen A. Richardson, Barbara Snell Dohrenweld and David Klein, Interviewing: Its Forms and Functions (New York: Basic Books, Inc., 1965), p. 2.

(1) where rough screening is sufficient or (2) where the number of applicants is too small to justify or permit the development of more scientifically exact procedures; and (3) where certain traits can be evaluated more accurately by means of an interview than by other means."⁴⁷

Yonge concludes that the interview should only be used to acquire specific, necessary knowledge of the applicant unavailable through more objective psychological tests or through the application form.⁴⁸

Carr disagrees with Yonge in maintaining that the candidate's work history should be a part of the interview as well as the application form. "A routine procedure that involves a critical inquiry into every phase of the following: work history, personality study, and educational history should enable the personnel interviewer to make a good prognosis about the applicant."⁴⁹

Campbell, Prien and Brailey reported the results of a study wherein trained interviewers, using patterned interviews, rated ninety-five men and women for prospective over-all performance in clerical tasks. One of their conclusions was:

⁴⁷Wagner, op. cit., p. 44.

⁴⁸Yonge, op. cit., p. 27.

⁴⁹A. M. Carr, "An Inner View of the Interview," Personnel Journal, 1965, 44, 193-197.

The results of this study are substantially in agreement with the findings of other researchers. That is, the interview can be, and is, a useful tool in the employment procedure to obtain facts and to orient the prospective employee. However, as a predictive measure, its value is limited and questionable. In this particular case, the Gordon Personal Profile scales show substantially higher validity.⁵⁰

Mayfield, in his recent and comprehensive review, concludes:

A general suitability rating based on an unstructured interview with no prior information provided has extremely low inter-rater reliability, especially in an employment situation. This was originally shown by Scott (1915) and by other investigators more recently (e.g. Uhrbrock, 1948). In other words, the interview as normally conducted in a selection situation is of little value.⁵¹

Textbook writers in the field conceive of the functions of the employment interview as generally being those of the gathering of information for the selection decision, the giving of information to the applicant for purposes of his decision making, and the furtherance of public relations for the firm whether or not the applicant is accepted.⁵² It seems that only the first of these general functions has been empirically investigated to any

⁵⁰J. T. Campbell, E. P. Prien and L. G. Brailey, "Predicting Performance Evaluations," Personnel Psychology, 1960, 13, 435-440, p. 439.

⁵¹Mayfield, op. cit., p. 249.

⁵²Walter Van Dyke Bingham and Bruce Victor Moore, How to Interview (New York: Harper & Brothers, 1941), p. 1; and Dale S. Beach, Personnel: The Management of People at Work (New York: The Macmillan Company, 1965), p. 243.

extent. The interview has apparently been found wanting in its fulfillment of this function; at the least researchers are not content with its performance.

It could be that the emphasis on this aspect of the employment interview is a manifestation of a "What's in it for me?" attitude on the part of employers. That is, they tend to support research that has more direct implications for their welfare.

The widespread confidence in the interview displayed by interviewers in the face of the denials of researchers regarding its predictive efficacy could have something to do with its usefulness in the fulfillment of other functions. It may be that the interview is uniquely suited to the dissemination of information desired by the respondent/candidate, and similarly suited to the "making of friends" for the company whatever the outcome of the interview (in terms of decisions) may be. Its excellence in these respects may blind practitioners to its defects.⁵³

⁵³ As noted in Chapter I, there is an endless list of benefits claimed to be the result of the interview. Each author seems to have his personal view of the functions of the interview, and accordingly his own view of the interview's advantages. Suffice it to add the view of one last reviewer of this study area. Crissy, op. cit., p. 73:

"The interview continues to be the most widely used personnel selection method in private industry despite the development of other tools and techniques for appraising human talents. There are manifold reasons for this preference. The more important considerations include: (1) the supplementary, non-evaluative functions

In Chapter IV some preliminary findings regarding the second general function are discussed as they occurred in the author's investigation. If the competition for university graduates of the recent past and the present continues, employers may find themselves more avidly seeking methods of informing students about, and interesting them in, positions with their firms. One of the most likely avenues for this effort would of course be the interview.

There are other areas of controversy regarding the selection interview. Probably the most common are: that concerned with the qualities and approaches of a good interviewer;⁵⁴ the body of research and argument concerned

served by the interview; (2) an almost universal conviction on the part of supervisory and managerial personnel that they are good "pickers of men"; (3) the expectation on the part of job applicants of personal treatment such as is accorded in the interview."

⁵⁴ Rogers, op. cit., pp. 19-64; Wallace Burch, "Conducting a Productive Interview," Personnel Journal, 1962, 41, 285-286; George P. Hill, "From the Interviewer's Side of the Desk," Personnel Journal, 1962, 41, 115-116; Richard H. Magee, "The Employment Interview--Techniques of Questioning," Personnel Journal, 1962, 41, 241-245; E. M. Christensen, "In-Plant Interviewing of College Applicants," Personnel Journal, 1964, 43, 189-193; E. Bruce Kirk, op. cit.; Thomas M. Carter, "The Placement of Qualified College Graduates in Appropriate Careers," Personnel Journal, 1963, 43, 72-77; Annett Garrett, Interviewing: Its Principles and Methods (New York: Family Welfare Association of America, 1942), pp. 17-20; Abercrombie, op. cit., p. 121; Robert Saltonstall, "What Employees Want From Their Work," in Edward C. Bursk, ed., Human Relations for Management (New York: Harper & Brothers, 1950), p. 330; Wesley Wiksell, Do They Understand You? (New York: The Macmillan Company, 1960); Robert L. Kahn and Charles F. Cannell, The Dynamics

with the interview's context--whether or not it should be used with psychological tests, or with particular psychological tests, and whether or not the application form should be read prior to the interview;⁵⁵ the relative merits of the single interview and the panel interview;⁵⁶ the number and kind of interviews to be used in a series;⁵⁷ the amount of talking that should be done by the interviewer and by the respondent;⁵⁸ and the "halo effect".⁵⁹

of Interviewing (New York: John Wiley & Sons, Inc., 1960); Rowe, op. cit.; and Glenn A. Bassett, "Manager and Candidate: Interview or Guessing Game?" Personnel, 1965, 42, 8-16.

⁵⁵J. C. Denton, "The Validation of Interview-Type Data," Personnel Psychology, 1964, 17, 281-287; Hodgson, op. cit., esp. p. 178; Trankell, op. cit., esp. p. 174; Glaser, Schwarz and Flanagan, op. cit.; Beach, op. cit., p. 244; Vernon, 1953, op. cit., pp. 83-100; and Roger M. Bellows and Frances M. Estep, Employment Psychology: The Interview (New York: Rinehart & Company, Inc., 1954), pp. 57-77, 133-192.

⁵⁶United States Office of Strategic Services, Assessment of Men: Selection of Personnel for the Office of Strategic Services (New York: Rinehart & Company, Inc., 1948) p. 40; Richard S. Uhrbrock, "The Personnel Interview," Personnel Psychology, 1948, 1, 273-292; Mottram Torre (ed.) The Selection of Personnel for International Service (New York: World Federation for Mental Health, 1963), pp. 72-74; and Bellows and Estep, op. cit., pp. 248-260.

⁵⁷George K. Bennett "What Do We Really Know About Executive Selection?" American Management Association Report No. 50, Looking Ahead in Labor Relations (New York: American Management Association, 1960); Uhrbrock, op. cit., p. 277; and Bellows and Estep, op. cit., pp. 1-24.

⁵⁸Uhrbrock, op. cit., p. 287; Anderson, op. cit.; and Daniels and Otis, op. cit.

⁵⁹Donald M. Johnson and Robert N. Vidulich,

VI. THE COLLEGE PLACEMENT INTERVIEW

Very little empirical research has been done regarding the placement interview. The literature is mostly comprised of the opinions of practitioners. Admitting that it is often unwise to make inferences from research in one area to questions in another, there are nevertheless some logical implications of the related research noted that could be considered.

Mandell has written an excellent summary description of the evaluative properties of the placement interview:

The typical campus interview is only 20 to 30 minutes in length, and even this brief period is shortened by the fact that the recruiter often has not received or reviewed the student's resume in advance and so must look at it on the spot. Also, he too often uses part of the time to "sell" his job and his organization instead of evaluating the candidate.

The second major problem in evaluation is the unreliability of college grades, coupled with the fact that professors base their evaluations on classroom, not work, performance. In addition, a campus interview--unlike most--is designed to predict performance 10 and 20 years hence but is conducted at a time when the interviewee's attitudes, interests, and temperament are not yet fixed. In other words, this is a situation in

"Experimental Manipulation of the Halo Effect," Journal of Applied Psychology, 1956, 40, 130-134; P. M. Symonds, "Notes on Rating," Journal of Applied Psychology, 1952, 9, 188-195; E. L. Thorndike, "A Constant Error in Psychological Ratings," Journal of Applied Psychology, 1920, 4, 25-29; Daniel M. Johnson, "Reanalysis of Experimental Halo Effects," Journal of Applied Psychology, 1963, 47, 46-47; Sydiah, op. cit., 1962; and Bellows and Estep, op. cit., p. 113.

which sound evaluation is impossible.

Treating these obstacles as a challenge, the recruiter might use the campus interview as a limited rejection device, not as a selection method; get to know the best students in advance of the recruiting season through informal discussion with professors and placement officers; obtain full transcripts and professors' evaluations as well as scores on standard tests; and arrange for a second interview and, preferably, a plant visit for those who survive the initial screening. Beyond this, the company might consider the administration of its own tests to determine interests, intelligence, and relevant knowledge (the last is particularly useful when students have taken only a few courses in the field of knowledge relevant to the job). Placement officers criticize the use of brief tests by inexperienced recruiters, but they also note that companies which use tests "do a better job than those that do not." Finally, there should be interviews with at least two or three additional company officials.

The organization will want to make certain, by means of research studies, that the correct factors are being evaluated. For example, a study by the Bell System utilized the records of 17,000 employees who were graduates of accredited colleges. The criterion was the salary achieved by college graduates with the same length of service. The results contradict many of the cliches of college recruiters. In summary: Academic standing is the best predictor of the criterion; the best men academically are more superior to the middle third than the middle third is superior to the bottom third. Academic standing is more meaningful if the quality of the college is taken into account. Extracurricular achievement, when defined as real activity, not merely membership, is related to salary progress and is "somewhat compensating for lower rank in class . . . but it is not by any means as strong a predictor as . . . scholastic achievement." And neither percentage of college expense earned nor major subject is predictive. In presenting these findings, Chairman Frederick R. Kappel of A T & T concluded:

"There will always be some mistakes made in the hiring of people. The question is--how can we make as few mistakes as possible? And how can we disregard the evidence that confronts us?

"When you hire a man of high intelligence but low grades, in effect you have to bet that a drive he hasn't yet shown will show after he goes to work. If, on the other hand, you are considering a high-scholarship man, your bet is that a drive already demonstrated will be sustained."⁶⁰

The requirement that the campus interview fulfill many functions (at least the three of getting information, giving information, and making friends) complicates to a possibly prohibitive degree the research design necessary to answer questions regarding a particular function. Two unpublished tape recording studies by Sydiah (done in an effort to overcome difficulties of the type suggested) were unsuccessful, their design apparently being incapable of isolating relevant information.⁶¹

Mandell implies a great problem with validity criterion measures when he notes that performance of the applicants in the distant future is the real object of evaluation.

In suggesting that the campus interview be a "limited rejection device", Mandell is only recommending an approach

⁶⁰ Milton M. Mandell, The Selection Process: Choosing the Right Man for the Job (New York: American Management Association, Inc., 1964), pp. 154-155; citing From the World of College to the World of Work (New York: American Telephone & Telegraph Company, 1962), p. 10.

⁶¹ D. Sydiah, op. cit., 1959; Webster, op. cit., 1964, citing D. Sydiah, The Relation Between Actuarial and Descriptive Methods in Personnel Appraisal. Unpublished Doctoral Dissertation, McGill University, Montreal, 1958.

that is apparently a psychological fact anyway.⁶²

Mandell's advocacy of psychological tests, application forms and other historical data as well as additional interviews, is in line with the direction of research findings--generally, the more known about the candidate, the better the selection decision is likely to be. Mandell suggests summer employment of likely candidates before graduation as "the ideal solution to the problem of evaluation".⁶³

The cost of a recruiting program is of course an important factor. Mandell cites, in 1956, a cost-per-graduate-hired estimate ". . . \$50 to \$12000 depending on the number of schools visited, the distances travelled, and the total number of graduates hired."⁶⁴ The National Industrial Conference Board reports the results of a survey of 106 companies regarding their recruitment costs in 1955. The figures ranged from fifty dollars per recruit (two companies) to two thousand dollars per recruit (four

⁶²B. I. Bolster and B. M. Springbett, "The Reaction of Interviewers to Favorable and Unfavorable Information," Journal of Applied Psychology, 1961, 45, 97-103, p. 102:

"First of all, there is clear-cut evidence that shifts in rating in the direction of rejection are more easily induced than shifts in the direction of acceptance."

⁶³Mandell, op. cit., p. 155.

⁶⁴Ibid., p. 156.

companies). The accounting methods used to assess these costs are indeterminate. The modal figures given were three hundred dollars and four hundred dollars.⁶⁵ With the increasing demand for university graduates in business, the costs of recruiting are probably rising. The Wall Street Journal of March 9, 1966 reports the experience of a relatively successful college recruiter for Socony Mobil Oil Company, Inc. He estimates a cost of one thousand dollars per graduate hired for his company.⁶⁶

The amount of money involved, and the importance of technological competence in an economy importantly characterized by accelerating technology, dictate a deep concern on the part of business for the efficient and productive recruitment of university-trained personnel. Little is really known about generally valid approaches to the problems in the area. Mandell and others cite commonly useful techniques, but they can be considered only as tentative. The individual company must analyze its own needs and situation, and through a trial-and-error process,

⁶⁵ National Industrial Conference Board, Inc., Studies in Personnel Policy, No. 152, Employment of the College Graduate. (New York: National Industrial Conference Board, Inc., 1956), p. 32.

⁶⁶ Richard Martin, "The Grad Hunt: Recruiters Seek to Hire More Students as Draft Cuts Down the Supply," The Wall Street Journal, Vol. XLVI, No. 103, Wednesday, March 9, 1966, p. 1.

eventually learn what will work tolerably well.

The recruiter in most instances seems to be a combination salesman/selector. Success in both endeavours is more a matter of art than science. Their unusual combination probably requires a rare virtuosity for success. It is difficult to detect much science in the following techniques of two apparently successful employee interviewers. The first was cited in 1918 by Kelly. It concerns an employment interviewer's description of how he and his colleagues judge applicants:

... by fundamental phrenological standards. A firm steady eye indicates honesty and reliability and a shifty eye indicates shiftiness of character. With most of us, however, the color of the eye as yet remains of no significance. We judge by the set of the chin, the shape of the mouth, the courteous vigor of the handgrip, the individual's dress and bearing.⁶⁷

Also of interest are statements made by the Socony Mobil man and cited in The Wall Street Journal:

"I'm here to find out about you, not to wave a big red horse around and tell you how great we are."

"If he (the student) likes the cut of your sail at the beginning you get rapport and the guy will level with you. Otherwise, it's hard to tell how honest a guy is being once he turns professional interviewee, sometime around the tenth interview. By then he's had the course--he knows how to shake hands, keep eye contact and grimace at the proper times. He might not know any more about what he wants to do, but he sure

⁶⁷ Roy Willmarth Kelly, Hiring the Worker (New York: The Engineering Magazine Co., 1919), p. 79.

will tell you exactly what he knows you want to hear."⁶⁸

There seems to be a definite awareness of structured and patterned interviews on the part of interview-seasoned graduating seniors. The benefits such approaches might hold for the selection function are probably outweighed by its disadvantages in the discharge of other functions.

It is difficult to imagine how any form of communication but the interview could handle the variety of circumstances and objectives characteristic of the college placement situation. The efficiency and effectiveness of other methods may dictate their use in the case of particular important functions. For instance, other interviews, weighted application blanks and psychological tests may be appropriate for the selection of candidates to be enrolled in an expensive company training program.

Though the interview may not fulfill all the functions it is called upon to fulfill to everyone's satisfaction (as conversation does not generally fulfill all the functions of communication to everyone's satisfaction) it is nevertheless the only reasonable communication medium for the college placement situation. There is presently well-founded hope for its improvement, through study of its psychological processes.

⁶⁸Martin, loc. cit.

CHAPTER III

THE PURPOSES OF THE EMPIRICAL STUDY

The central event of an interview is an exchange of information between or among the parties. In the campus placement interview the student is always seeking information regarding a position with a firm. The interviewer is always interested in providing the information the student seeks.

The interview would appear to be an excellent medium for the exchange of information. It has all the elements of a good communication system: an information source to encode and emit a signal; a channel to convey the signal; a receiver to decode and interpret the signal; opportunity for immediate and ongoing feedback to the source regarding how accurately and completely the signal was received. Furthermore, because the placement interview is conducted face-to-face and in private, there is a minimum of noise to be overcome. The possibility of misunderstanding is diminished by redundancy of transmission through other sensory modalities; primarily, of course, visual cues are important in this respect.

The placement interview apparently has striking potential for effective and efficient communication.

However, it has been suggested that campus recruiters do not know what sorts of information students are interested in.¹ Provided that individual students are interested in essentially the same information regarding positions with firms (and there are indications that it is so²), this would then suggest an inability of the placement interview to properly fulfill one of its basic functions. In spite of repeated contact with students seeking with varying zeal particular types of information, recruiters are unaware of the relative importance attached to these types of information by the students.

Social psychologists have shown that perception and retention of information interpersonally encountered is subject to distortion through social, psychological and contextual mechanisms. It has also been shown that repeated messages are better retained.

The first objective of the investigation undertaken was to discover whether or not campus recruiters were aware of the information students sought in interviewing for a position with a firm. Prior to this determination it was

¹Sanford M. Bunin and Carl J. Odegaard, "Relative Importance of Job Factors to Graduating College Seniors," University of Washington Business Review, April, 1961, 20, 50-56.

²Sanford M. Bunin and Gretchen Scheyer, "Campus Recruiters and Graduating Seniors," University of Washington Business Review, June, 1961, 20, 50-59.

necessary to first determine that students, or particular groups of students, did in fact seek the same sorts of information. Second, it was necessary to determine that recruiters, or particular groups of recruiters, did in fact agree on what they thought students sought in the way of information. If the two groups were each homogeneous in their views, they could be meaningfully compared.

Hypotheses were advanced for testing the homogeneity of samples: the individual rankings of arts students are related; the individual rankings of the engineering students are related; the individual rankings of the commerce students sampled in the middle of the recruiting season are related; the individual rankings of the post-recruiting season sample of commerce students are related; the individual rankings of the students sampled (arts, engineering, and commerce aggregated) are related; the individual rankings of the mid-recruiting season sample of recruiters are related; the individual rankings of the late recruiting season sample of recruiters are related; the individual rankings of the recruiters (aggregated) are related. These hypotheses are stated in the null form (Nul Hypotheses I to VIII) and tested in Chapter V.

If it was further found that interviewers incorrectly perceived and/or inaccurately retained important information commonly discussed in the interview, then it

might be inferred that the decision-making functions of the interview were contingently impaired. That is, the quality of decisions is probably highly dependent on the quality of the information they are based upon. Poor information will yield poor decisions.

It might also be inferred (on the basis of inaccurate information retention) that psychosocial noise had, in the placement interview situation, undermined the soundness of the interview as a communication model.

The hypothesis advanced for testing the accuracy of the recruiters' rankings was, "The rankings of the recruiters and students taken together are related." It is stated in the null form (Null Hypothesis IX) and tested in Chapter V.

In order to examine the effect of experience in this aspect of interviewing, it was decided to compare interviewer samples of groups of individuals with varying placement interview experience on their impressions of the information students sought. Such a procedure might yield inferences for the effect of repetition in interview communication. Relevant data is summarized in Table XVII in Chapter V.

The primary objectives of the investigation then, were concerned with the accuracy of perception and retention (on the part of interviewers) of information

obtained in the interview from respondents.

A secondary series of objectives revolves around the face validity of the list of decision factors. What do graduating seniors seek in a position with a firm? Are there systematic variations in the information sought by objectively identifiable groups? That is, do engineering graduates seek one thing, commerce graduates another? Do married students seek positions and companies palpably different from those sought by single students? Can a recruiter predict what information will interest the son of a labourer? Or the son of a professional man? Answers to such questions are of importance to recruiters and college placement officials. Relevant data is presented in Chapter V.

Face validity is a dangerous thing. To use it we must assume the individual means what he says, and that he takes the questions to mean nearly the same thing the question author and all the other questionnaire respondents take them to mean. These assumptions may very easily be unfounded.

Nevertheless conventional inductive reasoning does not practically deny the value of accepting what a person says as being that which he means; nor further, of even being that which is true about him. With further apology delayed until Chapter VI, then, these findings will be

discussed.

CHAPTER IV

METHODOLOGY FOR THE INVESTIGATION

I. THE PRETEST STUDY

Sources of Data

Students. In July, 1965, a sample of fifty students of the Faculty of Business Administration and Commerce was chosen randomly from a list of the students supplied by the Faculty. Each was mailed a questionnaire form identical to that in Appendix A (pages 121 to 125). A covering letter (Appendix A, page 126) was enclosed with the questionnaire along with a stamped, return-addressed envelope. Twenty-seven questionnaires were returned.

Employers. In July, 1965, a representative of the National Employment Service distributed the employer questionnaire form (Appendix A, pages 127 to 129) by mail to a number of employers who regularly interviewed students at the University of Alberta. The letterhead of the National Employment Service University of Alberta Student Placement Office was used for the covering letter in the expectation that by so doing a better response would be gained. This expectation was borne out when all but two of the companies contacted replied, for a total of thirty-three

employer responses.

Method of Procedure

Students. In the anticipation that a number of factors might, it would overtly appear, affect an individual's choice of position with a firm, the author wished to devise questions that would briefly and innocuously elicit information regarding the students' sex, age, marital status, and socioeconomic background. Accordingly a number of questions were composed and ordered on a form, along with the fifteen factors for ranking isolated by Bunin et al¹ and a check question (appearing after the factors) designed to elicit the respondents' consideration of factors other than those listed. After discussion of the structure and ordering of the questions with members of the faculty and a number of graduate students of the Faculty of Business Administration and Commerce, the pretest questionnaire was cast in the form shown in Appendix I (pages 121 to 125). There appeared the possibility of ambiguity in a number of the questions, but it was decided to try this form in the pretest to discover if the students would easily

¹Sanford M. Bunin and Carl J. Odegaard, "Relative Importance of Job Factors to Graduating College Seniors," University of Washington Business Review, April, 1961, 20, 50-56.

understand and answer the questions.

The returned questionnaires were complete in all respects. Interviews with a number of respondents indicated that they had little or no difficulty understanding the questions. One objected to the length of the ranking question, complaining that there was little to choose among the five or six least important items.

Employers. In the expectation that the work experience and capacity of an interviewer might influence or be correlated with his impressions of student interview respondents, the author attempted to devise questions that would elicit data relevant to such hypotheses. In addition, of course, the interviewer was asked how he felt students would rank the factors, and apart from the listed factors, what he felt they considered important in taking a position with a firm.

Again, after consultation with faculty and graduate students in the Faculty of Business Administration and Commerce, a questionnaire in the form shown in Appendix A (pages 127 to 129) was settled upon.

Two employers did express dissatisfaction with Question No. 4, claiming that they did not understand its meaning. One employer did not rank the factors at all, merely listing the three he felt that students should

consider as important. Another employer ranked only his first five choices among the factors. Of thirty-three responses, then, twenty-six were usable for statistical analysis.

Treatment of Findings

Students. The returned forms were read for a qualitative assessment of the responses. It was decided that no decision factor was mentioned frequently enough to warrant inclusion among those to be ranked.

Kendall's coefficient of concordance W was used to statistically test the homogeneity of the sample. The relationship of the individual rankings was established as significant at the .001 level.

Although the sample sizes were too small for statistical significance, it appeared to the author that the income and occupation level of the respondent's parents might systematically bias his choices in favour of social or status considerations, and away from economic considerations.

At any rate the questionnaire seemed to be acceptable to respondents and productive of the desired information. It was therefore decided to retain it intact for the actual experiment. This decision had the advantage of making possible a longitudinal study of samples from the

same population of students should it appear informative to do so.

Employers. The returned questionnaires were read for qualitative assessment. It was not possible to identify any single decision factor worthy of inclusion among those to be ranked.

Kendall's coefficient of concordance W was used to assess the homogeneity of the sample. The relationship of the individual rankings was established as significant at the .001 level.

Because of the dissatisfaction expressed by employer respondents regarding Question No. 4 on the original form, "What other experience have you had with recruitment of graduating seniors?" it was decided to replace this question with "Have you had previous experience with recruitment of graduating seniors? If so, please describe your role in this recruiting.", on the final form.

In addition, information regarding the possible impact of particular recruiters' views was reasoned to be desirable. Accordingly, the replacement for Question No. 4 was moved to No. 5, and a new question, "How many graduating seniors do you expect to interview this year?

In total? _____

At the University of Alberta? _____" was

inserted as No. 4. This question was reasoned to have the additional advantage of indicating the extent of the interviewer's campus experience (because the questionnaire forms would be distributed well into the recruiting season), and possibly as an indicator of the extent of his campus interviewing in previous years. The final employer questionnaire was distributed in the form shown on pages 130 to 132 in Appendix A.

II. THE INVESTIGATION

Sources of Data

Students. Samples of one hundred of each of the graduating Faculty of Arts students, graduating Bachelor of Commerce students, and fourth year bachelor's engineering students were chosen.

A list of all the arts students expected to graduate from three year programs was prepared by the Secretary of the Faculty of Arts. From it, a random sample of one hundred students was chosen. To each was sent the questionnaire form (Appendix A, pages 121 to 125), a covering letter (Appendix A, page 133) and a stamped, return-addressed envelope for inclusion of the questionnaire. Forty-seven were returned, of which forty-five were entirely useable.

The names of one hundred commerce students were randomly chosen from a list prepared by that faculty's secretarial staff. To each a questionnaire and covering memorandum (Appendix A, page 134) was given through the medium of his assignment folder in the faculty office. Fifty-two were returned; and forty-nine were entirely useable.

The names of one hundred fourth-year engineering students were randomly chosen from a list supplied by that faculty's secretarial staff. Each was mailed a questionnaire and a covering letter (Appendix A, page 135), and a stamped, return-addressed envelope. Forty-eight were returned, of which forty-four were entirely useable.

Employers. With the cooperation of the University of Alberta National Employment Service Student Placement Office, a letter was composed and sent to approximately one hundred and twenty employers who were expected to interview graduating seniors for employment through the facilities of that office during the November, 1965 to April, 1966 recruiting season. A questionnaire form (Appendix A, pages 130 to 132) and a covering letter (Appendix A, page 136) were sent to the representatives of each of these employers who, in the opinion of the Student Placement Office, were most likely to interview at the Alberta office. Of course,

many of these individuals had already written to the office and made commitments; some had already done their Alberta interviewing at the time of completing the questionnaire. Ninety-nine questionnaires were returned, of which eighty-eight were entirely useable.

Method of Procedure

Students. Categories were developed for analysis of the parameters suggested by the questions. For instance, Question No. 4:

| | |
|------------------------------|---|
| "Marital Status: Single | — |
| Engaged to be married | — |
| Married | — |
| Separated, widowed, divorced | " |

suggests four categories for comparison with one another on the basis of factor rankings. Where categories contained fewer than ten respondents, they were combined with others (where logically possible) or the results were ignored.

Employers. Categories were again developed for analysis of the parameters suggested by the questions.

Treatment of Findings

Students. Results were tabulated by categories. If it appeared that some category was associated with a

systematic deviation from the overall ranking pattern, this relationship was statistically tested for significance.

The Kendall coefficient of concordance W was used to test the significance of these relationships. The sample data was tested for derivation from the same population. In Chapter V these findings are discussed.

The questionnaires were read a number of times for qualitative information offered in the open-ended questions. Particular attention was paid to questions No. 13 and No. 14. In Chapter VI these impressions are discussed.

Employers. As with the student form, results were tabulated by categories. If a systematic relation between one of the categories and a unique ranking pattern was indicated, the relationship was tested by the Kendall coefficient of concordance W. The sample data was tested for derivation from the same population. These findings are discussed in Chapter V.

Qualitative assessments of the open-ended questions were made by reading the questionnaires a number of times. Particular attention was devoted to Question No. 6. These impressions are recorded in Chapter VI.

CHAPTER V

THE HYPOTHESES AND THEIR IMPLICATIONS

Chapter III sets out two primary objectives for the investigation. Several hypotheses and Table XVII are concerned with the first: determination of the recruiters' awareness of the information students consider important in seeking a position with a firm. The body of discussion following section I in the present chapter is concerned with the second objective--inferences proceeding from the data under the assumption of face validity of the decision factors.

In order to statistically compare the students' rankings of the factors with the recruiters' judgment of the students' rankings, it was necessary to establish the homogeneity and stability of the rankings of each collectivity. Accordingly a number of null hypotheses were stated and tested by the use of the chi square approximation for the significance testing of the Kendall coefficient of concordance W in large samples.¹

¹Sidney Siegel, Nonparametric Statistics: For the Behavioral Sciences (New York: McGraw-Hill Book Company, Inc., 1956), pp. 235-238. When the factors to be ranked exceed 7, W is approximately distributed as chi square with $N-1$ degrees of freedom and chi square equal to the number of judges multiplied by the number of factors less one, multiplied by W .

I. HOMOGENEITY

Null Hypothesis I: The individual rankings of the arts students are unrelated.

A chi square value in excess of 36.12 is significant at the .001 level. The chi square value computed was 314.005. The null hypothesis is therefore rejected at the .001 level, and we may infer that the arts students are applying essentially the same standards in ranking the decision factors.² (See Table I.)

TABLE I
RANK ORDER OF JOB FACTORS - ARTS SAMPLE

k = 45

| Rank | Factor | Description |
|------|--------|---|
| 1 | D | Opportunity to do work I prefer |
| 2 | G | Chances for position advancement |
| 3 | C | Size of beginning salary |
| 4 | E | People I will be working with |
| 5 | B | Geographical location of job |
| 6 | H | Types of training programs offered by firm |
| 7 | O | Status of firm within its own field |
| 8 | N | Fringe benefits offered |
| 9 | L | Attractive physical environment |
| 10 | M | Behaviour of recruiters or employment people I meet |
| 11 | I | Product or service offered by firm |
| 12.5 | F | Fame or status of firm |
| 12.5 | A | Size of firm or company |
| 14 | J | Activities of firm in community service |
| 15 | K | Title of job or position |

²Ibid., p. 237.

Null Hypothesis II: The individual rankings of the engineering students are unrelated.

A chi square value in excess of 36.12 is significant at the .001 level. The chi square value computed was 304.797. The null hypothesis is therefore rejected at the .001 level, and we may infer that the engineering students are applying essentially the same standards in ranking the decision factors. (See Table II.)

TABLE II

RANK ORDER OF JOB FACTORS - ENGINEERING SAMPLE

k = 44

Rank Factor

| | | |
|----|---|--|
| 1 | D | Opportunity to do work I prefer |
| 2 | G | Chances for position advancement |
| 3 | C | Size of beginning salary |
| 4 | B | Geographical location of job |
| 5 | H | Types of training programs offered by firm |
| 6 | E | People I will be working with |
| 7 | O | Status of firm within its own field |
| 8 | L | Attractive physical environment |
| 9 | N | Fringe benefits offered |
| 10 | M | Behavior of recruiters or employment people I meet |
| 11 | I | Product or service offered by firm |
| 12 | A | Size of firm or company |
| 13 | F | Fame or status of firm |
| 14 | K | Title of job or position |
| 15 | J | Activities of firm in community services |

Null Hypothesis III: The individual rankings of the commerce students sampled in the middle of the recruiting season are unrelated.

A chi square value in excess of 36.12 is significant at the .001 level. The chi square value computed was 303.55. The null hypothesis is therefore rejected at the .001 level, and we may infer that these commerce students are applying essentially the same standards in ranking the decision factors. (See Table III.)

TABLE III

RANK ORDER OF JOB FACTORS - MID-RECRUITING SEASON
COMMERCE SAMPLE

k = 49

Rank Factor

| | | |
|----|---|---|
| 1 | D | Opportunity to do work I prefer |
| 2 | G | Chances for position advancement |
| 3 | C | Size of beginning salary |
| 4 | H | Types of training programs offered by firm |
| 5 | E | People I will be working with |
| 6 | B | Geographical location of job |
| 7 | A | Size of firm or company |
| 8 | O | Status of firm within its own field |
| 9 | I | Product or service offered by firm |
| 10 | F | Fame or status of firm |
| 11 | M | Behaviour of recruiters or employment people I meet |
| 12 | N | Fringe benefits offered |
| 13 | L | Attractive physical environment |
| 14 | K | Title of job or position |
| 15 | J | Activities of firm in community service |

Null Hypothesis IV: The individual rankings of the post-recruiting season sample of commerce students are unrelated.

A chi square value of 36.12 is significant at the .001 level. The chi square value computed was 218.274.

The null hypothesis is therefore rejected at the .001 level and we may infer that these commerce students are applying essentially the same standards in ranking the decision factors. (See Table IV.)

TABLE IV

RANK ORDER OF JOB FACTORS - POST-RECRUITING SEASON
COMMERCE SAMPLE

k = 30

Rank Factor

| | | |
|----|---|---|
| 1 | D | Opportunity to do work I prefer |
| 2 | G | Chances for position advancement |
| 3 | H | Types of training programs offered by firm |
| 4 | C | Size of beginning salary |
| 5 | E | People I will be working with |
| 6 | B | Geographical location of job |
| 7 | M | Behaviour of recruiters or employment people I meet |
| 8 | O | Status of firm within its own field |
| 9 | I | Product or service offered by firm |
| 10 | A | Size of firm or company |
| 11 | N | Fringe benefits offered |
| 12 | L | Attractive physical environment |
| 13 | F | Fame or status of firm |
| 14 | K | Title of job or position |
| 15 | J | Activities of firm in community service |

Null Hypothesis V: The individual rankings of the students sampled (arts, engineering and commerce aggregated) are unrelated.

A chi square value of 36.12 is significant at the .001 level. The chi square value computed was 52.08, considering each of the four student samples' mean rankings only ($k = 4$). When all the students were aggregated, the

chi square value was 1,024.061 ($k = 168$). The null hypothesis is therefore rejected at the .001 level, and we may infer that all the students are applying essentially the same standards in ranking the decision factors. (See Table V.)

TABLE V

RANK ORDER OF JOB FACTORS - AGGREGATE STUDENT SAMPLE

 $k = 168$

| Rank | Factor | Description |
|------|--------|---|
| 1 | D | Opportunity to do work I prefer |
| 2 | G | Chances for position advancement |
| 3 | C | Size of beginning salary |
| 4 | E | People I will be working with |
| 5 | H | Types of training programs offered by firm |
| 6 | B | Geographical location of job |
| 7 | O | Status of firm within its own field |
| 8 | M | Behaviour of recruiters or employment people I meet |
| 9 | I | Product or service offered by firm |
| 10 | A | Size of firm or company |
| 11 | N | Fringe benefits offered |
| 12 | L | Attractive physical environment |
| 13 | F | Fame or status of firm |
| 14 | K | Title of job or position |
| 15 | J | Activities of firm in community service |

Tables I, II, III and IV demonstrate no great differences in the rankings. "Opportunity to do work I prefer" and "chances for position advancement" rank first and second respectively in all cases. "Title of job or position" and "activities of firm in community service" rank fourteenth and fifteenth in all cases. "Size of

"beginning salary", "types of training programs offered by firm", "people I will be working with", and "geographical location of job" are invariably ranked from third to sixth inclusive, usually in that order.

Both on intuitive and statistical grounds, then, it appears that we may assume homogeneity of the student rankings.

Null Hypothesis VI: The individual rankings of the mid-recruiting season sample of recruiters are unrelated.

A chi square value of 36.12 is significant at the .001 level. The chi square value computed was 282.652. The null hypothesis is therefore rejected at the .001 level, and we may infer that these recruiters are applying essentially the same standards in ranking the decision factors. (See Table VI.)

Null Hypothesis VII: The individual rankings of the late recruiting season sample of recruiters are unrelated. A chi square value of 36.12 is significant at the .001 level. The chi square value computed was 380.240. The null hypothesis is therefore rejected at the .001 level, and we may infer that these recruiters are applying essentially the same standards in ranking the decision factors. (See Table VII.)

TABLE VI

RANK ORDER OF JOB FACTORS - MID-RECRUITING-SEASON
RECRUITERS SAMPLE. k = 38

| Rank | Factor | Description |
|------|--------|---|
| 1 | G | Chances for position advancement |
| 2 | D | Opportunity to do work I prefer |
| 3 | C | Size of beginning salary |
| 4 | H | Types of training programs offered by firm |
| 5 | B | Geographical location of job |
| 6 | A | Size of firm or company |
| 7 | O | Status of firm within its own field |
| 8 | M | Behavior of recruiters or employment people I meet |
| 9 | F | Fame or status of firm |
| 10 | I | Product or service offered by firm |
| 11 | E | People I will be working with |
| 12 | K | Title of job or position |
| 13 | N | Fringe benefits offered |
| 14 | L | Attractive physical environment |
| 15 | J | Activities of firm in community services |

TABLE VII

RANK ORDER OF JOB FACTORS - LATE-RECRUITING-SEASON
RECRUITERS SAMPLE. k = 50

| Rank | Factor | Description |
|------|--------|--|
| 1 | D | Opportunity to do work I prefer |
| 2 | G | Chances for position advancement |
| 3 | C | Size of beginning salary |
| 4 | H | Types of training programs offered by firm |
| 5 | B | Geographical location of job |
| 6 | M | Behaviour of recruiters or employment people I meet |
| 7 | O | Status of firm within its own field |
| 8 | F | Fame or status of firm |
| 9 | A | Size of firm or company |
| 10 | E | People I will be working with |
| 11 | I | Product or service offered by firm |
| 12 | N | Fringe benefits offered |
| 13 | L | Attractive physical environment |
| 14 | K | Title of job or position |
| 15 | J | Activities of firm in community service |

Null Hypothesis VIII: The individual rankings of the recruiters (aggregated) are unrelated.

A chi square value of 36.12 is significant at the .001 level. The chi square value computed was 642.303. The null hypothesis is therefore rejected at the .001 level and we may infer that the recruiters are applying essentially the same standards in ranking the factors. (See Table VIII.)

TABLE VIII

RANK ORDER OF JOB FACTORS - AGGREGATE RECRUITER SAMPLE

k = 88

Rank Factor

| | | |
|----|---|--|
| 1 | D | Opportunity to do work I prefer |
| 2 | G | Chances for position advancement |
| 3 | C | Size of beginning salary |
| 4 | H | Types of training programs offered by firm |
| 5 | B | Geographical location of job |
| 6 | O | Status of firm within its own field |
| 7 | M | Behaviour of recruiters or employment people I meet |
| 8 | A | Size of firm or company |
| 9 | F | Fame or status of firm |
| 10 | E | People I will be working with |
| 11 | I | Product or service offered by firm |
| 12 | N | Fringe benefits offered |
| 13 | K | Title of job or position |
| 14 | L | Attractive physical environment |
| 15 | J | Activities of firm in community service |

Using information from Question No. 4, the categories shown in Table IX were developed, and the recruiters in each checked for homogeneity of rankings by the same method of hypothesis testing described for null hypotheses I to VIII.

A chi square value of 36.12 is significant at the .001 level. The number of recruiters in each category is indicated by k.

TABLE IX

HOMOGENEITY OF RECRUITERS' RANKINGS ACCORDING
TO EXTENT OF INTERVIEWING

| | Chi Square | k |
|---|--------------------|----|
| Recruiters interviewing 0 to 5 students at the University of Alberta | 138.644 | 18 |
| Recruiters interviewing 6 to 10 students at the University of Alberta | 117.578 | 18 |
| Recruiters interviewing 11 to 25 students at the University of Alberta | 193.546 | 26 |
| Recruiters interviewing 26 or more students at the University of Alberta. . . | 153.044 | 18 |
| Recruiters interviewing 0 to 10 students in total. | 9.802 ³ | 6 |
| Recruiters interviewing 11 to 50 students in total. | 201.489 | 28 |
| Recruiters interviewing 51 to 100 students in total | 163.013 | 20 |
| Recruiters interviewing 11 or more students in total | 249.614 | 29 |

The only chi square value not significant at the .001 level is that for those recruiters interviewing ten or fewer students in total. However, only six respondents fall in this category, making it unlikely that it would yield

³Significant at the .20 level.

statistically significant agreement on the rankings.⁴

II. COMPARABILITY OF STUDENTS' AND RECRUITERS' RANKINGS

Null Hypothesis IX: The rankings of the recruiters and students taken together are unrelated.

A chi square value of 36.12 is significant at the .001 level. The chi square value computed was 1,541.120. The null hypothesis is therefore rejected at the .001 level, and we may infer that the recruiters and students are applying essentially the same standards in ranking the decision factors. (See Table X.)

TABLE X

RANK ORDER OF JOB FACTORS - AGGREGATE RECRUITER AND STUDENT SAMPLES. k = 256

| Rank | Factor | Description |
|------|--------|---|
| 1 | D | Opportunity to do work I prefer |
| 2 | G | Chances for position advancement |
| 3 | C | Size of beginning salary |
| 4 | H | Types of training programs offered by firm |
| 5 | B | Geographical location of job |
| 6 | E | People I will be working with |
| 7 | O | Status of firm within its own field |
| 8 | M | Behaviour of recruiters or employment people I meet |
| 9 | A | Size of firm or company |
| 10 | I | Product or service offered by firm |
| 11 | F | Fame or status of firm |
| 12 | N | Fringe benefits offered |
| 13 | L | Attractive physical environment |
| 14 | K | Title of job or position |
| 15 | J | Activities of firm in community service |

⁴"Respondents" in the chapters (IV, V, VI) concerning the empirical investigation are those who responded to questionnaires; they should be distinguished from the interview respondents discussed in Chapters I, II and III.

III. STUDENT CATEGORIES

As many categories were developed from the questions as were possible consistent with a significant number of respondents falling in each. The student questionnaire form is displayed on pages 121 to 125 in Appendix A.

From Question No. 1 of the student form, the following information was compiled and summarized as in Table XI. Rankings were placed in three categories: those aged twenty-two or less, those aged twenty-three and twenty-four, and those twenty-five or older. It is evident from examination of the table that no significant differences exist in the rankings.

From Question No. 2, place of birth categories derived were "Edmonton" and "elsewhere in Canada", the only categories with significant numbers of respondents. No significant differences in the rankings are evident from the presentation of this data in Table XI.

Regarding Question No. 3, only two females returned questionnaires; therefore the results were discarded for lack of significance.

From Question No. 4, the categories developed were "single", "engaged", and "married". From Table XII, the married students rank "geographical location of job" fourth. The single and engaged students rank it eighth and ninth

TABLE XI

STUDENT RANKINGS OF FACTORS BY AGE AND BIRTHPLACE

 $k = 108$

| FACTORS | AGE | | | BIRTHPLACE | |
|--|------------|-------|------------|------------|--------|
| | 22 or less | 23-24 | 25 or over | Alberta | Canada |
| A. Size of firm or company | 11 | 9 | 13 | 12 | 9 |
| B. Geographical location of job | 9.5 | 6 | 5.5 | 7 | 6 |
| C. Size of beginning salary | 2.3 | 2 | 3 | 2.5 | 5 |
| D. Opportunity to do work I prefer | 1 | 1 | 1 | 1 | 1 |
| E. People I will be working with | 2.5 | 4 | 5.5 | 4 | 3 |
| F. Fame or status of firm | 8 | 13 | 11 | 13 | 11 |
| G. Chances for position advancement | 4 | 3 | 2 | 2.5 | 2 |
| H. Types of training programs offered by firm | 7 | 5 | 4 | 5 | 4 |
| I. Product or service offered by firm | 6 | 8 | 9 | 9 | 7 |
| J. Activities of firm in community service | 14 | 15 | 15 | 15 | 15 |
| K. Title of job or position | 15 | 14 | 14 | 14 | 14 |
| L. Attractive physical environment | 13 | 12 | 10 | 10 | 12 |
| M. Behaviour of recruiters or employment people I meet | 9.5 | 11 | 12 | 11 | 10 |
| N. Fringe benefits offered | 12 | 10 | 8 | 8 | 13 |
| O. Status of firm within its own field | 5 | 7 | 7 | 6 | 8 |

TABLE XII

STUDENT RANKINGS OF FACTORS BY MARITAL STATUS AND LOCATION OF HIGH SCHOOL ATTENDED

k = 108

| FACTORS | MARITAL STATUS | | | Edmonton | Canada | LOCATION OF HIGH SCHOOL ATTENDED |
|--|----------------|---------|---------|----------|--------|----------------------------------|
| | Single | Engaged | Married | | | |
| A. Size of firm or company | 10 | 11 | 11 | 12 | 10 | |
| B. Geographical location of job | 8 | 9 | 4 | 9 | 6 | |
| C. Size of beginning salary | 2 | 3 | 3 | 3 | 3 | |
| D. Opportunity to do work I prefer | 1 | 2 | 1 | 1 | 1 | |
| E. People I will be working with | 4 | 5 | 5 | 4 | 4 | |
| F. Fame or status of firm | 9 | 14 | 13 | 10 | 12 | |
| G. Chances for position advancement | 3 | 1 | 2 | 2 | 2 | |
| H. Types of training programs offered by firm | 6 | 4 | 6 | 5 | 5 | |
| I. Product or service offered by firm | 7 | 7 | 8 | 8 | 11 | |
| J. Activities of firm in community service | 14 | 15 | 15 | 15 | 15 | |
| K. Title of job or position | 15 | 13 | 14 | 14 | 14 | |
| L. Attractive physical environment | 12 | 12 | 7 | 13 | 8 | |
| M. Behaviour of recruiters or employment people I meet | 13 | 7 | 12 | 11 | 9 | |
| N. Fringe benefits offered | 11 | 8 | 10 | 7 | 13 | |
| O. Status of firm within its own field | 5 | 6 | 9 | 6 | 7 | |

respectively. This is an unusually large discrepancy and may indicate a truly disproportionate concern on the part of married students for this factor. However, later evidence indicates an instability of this factor. No other significant differences are evident among these categories.

Question No. 5 yielded only the two categories "Edmonton" and "elsewhere in Canada" for "Location of High School Attended". No significant differences are observable between the rankings displayed in Table XII.

From responses to Question No. 6, six categories were developed; for "Occupation of Mother", the categories were "housewife", "manual and clerical", and "professional"; and for "Occupation of Father", they were "manual", "clerical" and "professional". (See Table XIII.)

"Geographical location of job" was ranked from third to twelfth, but in no meaningful pattern. All other factors seem to be ranked evenly among these categories.

Six categories were derived from Question No. 7; under "Education of Mother" were "junior high school", "senior high school" and "some university"; under "Education of Father" were "junior high school", "senior high school", and "some university". (See Table XIV.) No significant differences among the rankings are observable.

Question No. 8 was qualitatively assessed for the purpose of moving a respondent one category higher than

TABLE XIII

STUDENT RANKINGS OF FACTORS BY OCCUPATIONS OF PARENTS

 $k = 108$

| FACTORS | OCCUPATION OF MOTHER | | | OCCUPATION OF FATHER | | |
|--|----------------------|-------------------|--------------|----------------------|----------|--------------|
| | Housewife | Manual & Clerical | Professional | Manual | Clerical | Professional |
| A. Size of firm or company | 12.5 | 9 | 9.5 | 14.5 | 9 | 10.5 |
| B. Geographical location of job | 8 | 4 | 9.5 | 12 | 3 | 6 |
| C. Size of beginning salary | 4.5 | 3 | 3 | 3 | 2 | 3 |
| D. Opportunity to do work I prefer | 1 | 1 | 1 | 1 | 1 | 1 |
| E. People I will be working with | 3 | 6 | 4 | 4.5 | 4.5 | 4 |
| F. Fame or status of firm | 11 | 12 | 7 | 9 | 13 | 13 |
| G. Chances for position advancement | 2 | 2 | 2 | 2 | 2 | 2 |
| H. Types of training programs offered by firm | 4.5 | 5 | 6 | 6 | 6.5 | 5 |
| I. Product or service offered by firm | 6 | 10.5 | 13 | 7 | 6.5 | 9 |
| J. Activities of firm in community service | 14 | 15 | 15 | 14.5 | 14 | 15 |
| K. Title of job or position | 15 | 10.5 | 14 | 10 | 15 | 14 |
| L. Attractive physical environment | 12.5 | 13 | 11 | 11 | 11 | 10.5 |
| M. Behaviour of recruiters or employment people I meet | 9 | 14 | 8 | 13 | 12 | 8 |
| N. Fringe benefits offered | 10 | 18 | 12 | 8 | 8 | 12 |
| O. Status of firm within its own field | 7 | 7 | 5 | 4.5 | 10 | 7 |

TABLE XIV

STUDENT RANKINGS OF FACTORS BY EDUCATION OF PARENTS

 $\kappa = 108$

| FACTORS | EDUCATION OF MOTHER | | | EDUCATION OF FATHER | | |
|--|---------------------|----------------|------------|---------------------|----------------|----------------|
| | Jr.High School | Sr.High School | Some Univ. | Elementary School | Jr.High School | Sr.High School |
| A. Size of firm or company | 13 | 10.5 | 10.5 | 14 | 11 | 10 |
| B. Geographical location of job | 6 | 5 | 9 | 10 | 6 | 6 |
| C. Size of beginning salary | 2.5 | 3 | 3 | 3 | 2 | 5 |
| D. Opportunity to do work I prefer | 1 | 1 | 1 | 1 | 1 | 3 |
| E. People I will be working with | 4 | 4 | 4 | 4.5 | 4.5 | 2 |
| F. Fame or status of firm | 10 | 13 | 7 | 12 | 9.5 | 4 |
| G. Chances for position advancement | 2.5 | 2 | 2 | 2 | 12 | 11 |
| H. Types of training programs offered by firm | 5 | 6 | 6 | 7 | 4.5 | 2 |
| I. Product or service offered by firm | 8 | 8 | 12 | 6 | 9.5 | 1 |
| J. Activities of firm in community service | 14 | 15 | 15 | 15 | 5 | 1 |
| K. Title of job or position | 15 | 14 | 14 | 13 | 14 | 8 |
| L. Attractive physical environment | 11 | 12 | 8 | 9 | 8 | 13 |
| M. Behaviour of recruiters or employment people I meet | 12 | 10.5 | 10.5 | 11 | 13 | 10 |
| N. Fringe benefits offered | 9 | 9 | 13 | 8 | 12 | 7 |
| O. Status of firm within its own field | 7 | 7 | 5 | 4.5 | 7 | 9 |

his response to Question No. 7 would indicate. That is, appreciable technical or vocational education would move an individual from "completed junior high school" to "completed senior high school" in the categorization for Question No. 7.

Question No. 9 yielded six income categories for the principal wage earner in the respondent's family: under each of "1960 to 1965" and "1955 to 1960" were the categories "\$0 to \$5,000", "\$5,000 to \$10,000", and "\$10,000 or more". (See Table XV.) No significant differences in rankings were observable among these categories.

Questions No. 11 and No. 13 were most often not answered. From Question No. 13 it could therefore be inferred that the factor list was relatively complete. No conclusions at all could be drawn from Question No. 11, however, except perhaps that it was an onerous or threatening question.

The only career choice influences mentioned frequently in Question No. 14 were parents and high school teachers.

IV. RECRUITER CATEGORIES

As with the student data, as many categories were developed from the returned employer questionnaires as

TABLE XV

STUDENT RANKINGS OF FACTORS BY INCOME OF PRINCIPAL WAGE EARNER AMONG PARENTS

| Factors | Average Income 1960 to 1965 | | | Average Income 1955 to 1960 | | |
|--|--------------------------------|------------------------|----------------------|--------------------------------|------------------------|----------------------|
| | \$0 to \$5,000 | \$5,000 to \$10,000 | \$10,000 and over | \$0 to \$5,000 | \$5,000 to \$10,000 | \$10,000 and over |
| A. Size of firm or company | 12 | 12 | 9 | 13 | 11 | 9 |
| B. Geographical location of job | 7 | 5 | 7 | 7 | 6 | 7 |
| C. Size of beginning salary | 2 | 3 | 3 | 2 | 3 | 3 |
| D. Opportunity to do work I prefer | 1 | 1 | 1 | 1 | 1 | 1.5 |
| E. People I will be working with | 4 | 4 | 5 | 4 | 4 | 4 |
| F. Fame or status of firm | 10 | 13 | 13 | 11 | 12 | 12 |
| G. Chances for position advancement | 3 | 2 | 2 | 3 | 2 | 1.5 |
| H. Types of training programs offered by firm | 6 | 6 | 4 | 5 | 5 | 5 |
| I. Product or service offered by firm | 9 | 9 | 8 | 8 | 10 | 8 |
| J. Activities of firm in community service | 13 | 15 | 15 | 14 | 15 | 15 |
| K. Title of job or position | 14 | 14 | 14 | 15 | 14 | 14 |
| L. Attractive physical environment | 11 | 11 | 10.5 | 10 | 13 | 10 |
| M. Behaviour of recruiters or employment people I meet | 15 | 8 | 10.5 | 12 | 9 | 11 |
| N. Fringe benefits offered | 8 | 10 | 12 | 9 | 8 | 13 |
| O. Status of firm within its own field | 5 | 7 | 6 | 6 | 7 | 6 |

contained a significant number of respondents. The employer questionnaire form is shown in Appendix A on pages 130 to 132.

For categorizing responses to Question No. 1, a company was considered "large" if its assets or sales exceeded twenty-five million dollars annually, or if it had more than one thousand employees. Only if it could not meet any of these three qualifications was it placed in the second category for "small employers". (See Table XVI.) No significant difference in the rankings was observable between these two categories. The representatives of large and small companies seem to agree on the rankings.

Question No. 2 yielded information regarding whether the respondent was engaged full- or part-time in personnel work. Table XVI displays the rankings corresponding to these two categories of respondents. No significant difference is observable.

Questions No. 3, No. 4 and No. 5 were concerned with establishing the amount of experience the respondent had in college placement interviewing. Questions No. 3 and No. 5 were read to confirm the validity of using certain quantitative categories as being indicative of this experience. The eight categories derived were: under "Total Number of Interviews Expected This Year", "0 to 10", "11 to 50", "51 to 100", and "101 or more"; and under

TABLE XVI

RECRUITER RANKINGS OF FACTORS BY SIZE OF COMPANY AND EXTENT OF ACTIVITY IN PERSONNEL FUNCTIONS. $K = 88$

| FACTORS | SIZE OF COMPANY | | | ACTIVITY OF RESPONDENT IN PERSONNEL FUNCTIONS | |
|--|--|--|--|--|-----------|
| | \$ 25 million + <u>Large Assets</u> | \$ 25 million + <u>Small Assets</u> | \$ 25 million - <u>Large Assets</u> | Full Time | Part Time |
| A. Size of firm or company | 8 | 6 | 6 | 10 | 7 |
| B. Geographical location of job | 5 | 4 | 4 | 4 | 5 |
| C. Size of beginning salary | 3 | 2 | 2 | 3 | 3 |
| D. Opportunity to do work I prefer | 2 | 1 | 1 | 1 | 1 |
| E. People I will be working with | 10 | 11 | 8 | 8 | 11 |
| F. Fame or status of firm | 9 | 8 | 9 | 9 | 8 |
| G. Chances for position advancement | 1 | 3 | 2 | 2 | 2 |
| H. Types of training programs offered by firm | 4 | 5 | 5 | 5 | 4 |
| I. Product or service offered by firm | 11 | 10 | 11 | 11 | 9 |
| J. Activities of firm in community service | 15 | 15 | 15 | 15 | 15 |
| K. Title of job or position | 13 | 14 | 13 | 13 | 13 |
| L. Attractive physical environment | 14 | 13 | 14 | 14 | 14 |
| M. Behaviour of recruiters or employment people I meet | 6 | 9 | 6 | 6 | 10 |
| N. Fringe benefits offered | 12 | 12 | 12 | 12 | 12 |
| O. Status of firm within its own field | 7 | 7 | 7 | 7 | 7 |
| | | | | 6 | 7 |

"Number of University of Alberta Interviews Expected This Year", "0 to 5", "6 to 10", "11 to 25" and "26 or more". (See Table XVII.) No significant differences in rankings were observable among these categories. Apparently relatively inexperienced interviewers agree with experienced interviewers on the ranking of the decision factors.

Responses to Question No. 6 generally discussed items which, on the basis of face validity, had counterparts in the list of decision factors. Occasionally the respondent would discuss factors the graduating senior should look for, or the conclusions of a book or article he had read that concerned the question. Usually an original response to Question No. 6 was repeated in Question No. 8. For example, one respondent stated that often students are interested in doing post-graduate work after employment (in Question No. 6), and that a concomitant decision factor should be the company's policy regarding post graduate courses for permanent employees (in Question No. 8).

No factor was mentioned with great frequency in responses to Question No. 8. The fifteen factors listed bear strong resemblance to those mentioned in responses to Question No. 6; therefore, it is only reasonable that the respondents had little to add to the list.

TABLE XVII

RECRUITER RANKINGS OF FACTORS BY TOTAL INTERVIEWS EXPECTED
AND UNIVERSITY OF ALBERTA INTERVIEWS EXPECTED

| FACTORS | TOTAL INTERVIEWS EXPECTED | | | | U. OF A. INTERVIEWS EXPECTED |
|--|---------------------------|-------|--------|------|------------------------------|
| | 0-10 | 11-50 | 51-100 | 101+ | |
| A. Size of firm or company | 5 | 8 | 9 | 10 | 6 |
| B. Geographical location of job | 3 | 5 | 5 | 5 | 4 |
| C. Size of beginning salary | 1 | 3 | 3 | 3 | 3 |
| D. Opportunity to do work I prefer | | | | | |
| E. People I will be working with | 4 | 1 | 1 | 2 | 1 |
| F. Fame or status of firm | 14 | 12 | 7.5 | 8 | 8.5 |
| G. Chances for position advancement | 11 | 7 | 7.5 | 9 | 7 |
| H. Types of training programs offered by firm | 2 | 2 | 2 | 1 | 2 |
| I. Product or service offered by firm | 7.5 | 4 | 4 | 4 | 4 |
| J. Activities of firm in community service | 7.5 | 9.5 | 11 | 11 | 11 |
| K. Title of job or position | 15 | 15 | 15 | 15 | 15 |
| L. Attractive physical environment | 6 | 11 | 14 | 12 | 13 |
| M. Behaviour of recruiters or employment people I meet | 13 | 14 | 13 | 14 | 14 |
| N. Fringe benefits offered | 12 | 9.5 | 6 | 8 | 8.5 |
| O. Status of firm within its own field | 10 | 13 | 12 | 11 | 12 |
| | 9 | 6 | 10 | 7 | 8 |
| | | | | | 5.5 |
| | | | | | 9 |
| | | | | | 26+ |

V. IMPLICATIONS OF FINDINGS

The Questionnaire. The considerable agreement students and recruiters arrived at on the rankings probably indicated an excellent agreement on a prior order-shared meaning regarding the decision factors. The assumption of face validity for the factors does not seem untenable.

In the rankings, only Factor B, "geographical location of job", seems unstable. It could be that the meaning of this factor is poorly shared or it could be that certain groups are more concerned with this factor (e.g. married students are more likely to have a house, children in school and other factors in their lives weighing in favour of a particular geographical location).

The decision factors seemed to describe most of the criteria felt to be important in the consideration of a position with a firm by a student. This suggests that some factors might be eliminated. "Activities of firm in community service" and "title of job or position" seem to be particularly likely candidates for removal.

The more than considerable agreement achieved by practically all the groups suggests that the factors are not very discriminating. Particularly in consideration of the experienced vs. inexperienced recruiters does this implication have importance for the primary objectives of

the investigation. Recruiters with more interviewing experience have presumably had more opportunity to learn for what a greater number of applicants express interest. Given that their perceptive and retentive abilities were similar to those of the less experienced interviewers, they would therefore be likely to have a better idea of what interviewees do consider important among the decision factors. The empirical finding that there is no significant difference between these two groups of interviewers suggests that either a little experience is as good as a lot, or that experience in interviewing does not have a bearing on the rankings. If the latter suggestion is valid, then the ranking exercise is irrelevant to the objective of assessing information exchange in the placement interview.

The author has concluded that the decision factors used in the study are indeed incapable of yielding insights into the quantity and accuracy of information exchanged in the placement interview. Most probably the reason for the factors' insufficiency in this regard is their broad and diverse character--the students and recruiters arrive at approximately the same rankings by merely responding to similar value systems. The information exchanged in the interview likely has not as great a bearing on the rankings as has general social knowledge, the learned ability to

assess generally the attitudes of trait-specific groups of others (e.g. young people graduating from university and seeking positions with firms).

In order to test the tenability of the irrelevance of interview experience, it would be necessary to ask a third group of individuals with reasonable social awareness to rank the factors in the order they felt most students would choose (as the recruiters did, of course). If this group were to achieve substantial agreement with the students on the rankings, as the author suspects it would, then the irrelevance of these factors for assessment of the information-exchange processes of the placement interview would be established more firmly.

On the basis of their students' rankings of the fifteen decision factors, Bunin and Odegaard claimed, "The present study, at least, offers some frame of reference for interviewers to be prepared to furnish the information which most students appear to want."⁵

Knowledge of these rankings by students in general would probably not aid the recruiter in practice. First, the recruiter apparently has a very good idea of how the student ranks them anyway. Second, the peculiarities of

⁵ Sanford M. Bunin and Carl J. Odegaard, "Relative Importance of Job Factors to Graduating College Seniors," University of Washington Business Review, April, 1961, 20, 50-56, p. 56.

the individual student's interests are apparently not detected by this test instrument. The recruiter would be obliged to seek these in the interview. In other words, the recruiter could use a knowledge of the central tendency of a great many students' interests in a tentative, preliminary way only, inferring particular students' interests as the interview progressed.

Only one decision factor ranking would seem at all enlightening for recruiters (i.e. one ranked according to different standards by students and recruiters). It is "people I will be working with". The aggregated recruiters sample ranked this factor tenth. The aggregated student sample ranked it fifth. Students and recruiters at the University of Washington ranked if fifth and tenth respectively in Bunin and Scheyer's study as well.⁶

⁶Sanford M. Bunin and Gretchen Scheyer, "Campus Recruiters and Graduating Seniors," University of Washington Business Review, June, 1961, 20, 50-59.

CHAPTER VI

LIMITATIONS OF THE STUDY UNDERTAKEN AND SOME LIKELY AVENUES FOR FURTHER RESEARCH

I. LIMITATIONS OF THE STUDY UNDERTAKEN

The most serious weakness of the investigation is its concern for secondary phenomena only. Many empirical studies of this type, conducted since 1920, have yielded some conclusions on how effective the interview is, but very little on how efficient it is, or how it could be improved as a communications or influence medium.

Only recently, with the advent of the tape recorder, have more primary observations been available for study. Analysis of interview transcripts is proving a useful technique for understanding of the psychodynamics of interviewing. The future holds more promise for interview research--the assessment of communication through sensory modalities other than hearing will be made possible by interview movies (and eventually, perhaps even "feelies"). The establishment of empirical relationships through direct observation of phenomena seems to be most rewarding in the study of the interview (as it has proven to be in the study of other social phenomena).

In replying to a questionnaire, the respondent may be insincere, untruthful or unconsciously biased.

The respondents' perceptions of a question's meaning may not be identical. In fact, it is unlikely that they would. The researcher's hope is that agreement on the meaning of the factors to be ranked was sufficient among the respondents for the secondary objectives of the study to be achieved. That is, the decision factors may justifiably be assumed to have reasonable face validity, and consequently we might say with confidence, "Graduating seniors are more interested in opportunity to do work they prefer than they are in the geographical location of the job". The extent of shared meaning regarding the factors among the respondents is almost entirely problematical. The author asked three respondents to the pretest questionnaire, and one respondent to the study questionnaire what the factors meant to them. It was the author's impression that there was tolerable agreement on meanings. Obviously such an impression carries little authority. The generalizations made regarding the factors per se must stand qualified to the extent of the error of their subjective meanings.

Particular errors considered likely are the misreading or misunderstanding of the ranking question

(No. 7) on the part of the employers. Instead of:

"Following are fifteen factors to be considered by students in evaluating a position with a firm. Please rank them, from first to fifteenth, in their order of importance to the students. That is, what order do you feel most students would arrive at?"

an interviewer might rank them in their order of importance to him, or in the order of importance he believes the students should arrive at. Two interviewers specifically changed "would" to "should" in the question and offered philosophical precis for their rankings of the factors.

The factors to be ranked do not make a clear distinction between characteristics of the job, and characteristics of the firm. It could be argued that a clearer picture of the relevant attitudes could be obtained by two questions, one concerned with the job, the other with the firm.

A number of other parameters could have been considered and appropriate questions devised. Does the student's ethnic background have an effect on how he ranks the factors? Does the educational background of the recruiter affect his ranking of the factors?¹

The questions were designed to be brief and innocuous for the purposes of gaining straightforward answers and a

¹Discussed by Sanford M. Bunin and Gretchen Scheyer, "Campus Recruiters and Graduating Seniors," University of Washington Business Review, June, 1961, 20, 50-59.

favourable response rate. The unusually high response rate among the employers would perhaps indicate that a longer and more complicated questionnaire form could be successful. Many of the employers requested knowledge of the findings of the study, indicating a high motivational level. Some favourable comments regarding the questionnaire itself were received, indicating some success in the composition of unambiguous questions.

The large proportion of recruiters replying to the questionnaire, relative to the total population of recruiters in Canada, indicates a good prospect for generalization of the sample findings to this population.

The difficulties inherent in observation of secondary phenomena are of course applicable to the student samples as well.

An undeniable loss of a great deal of objectivity attends any information-gathering through questioning. There is first the problem of motivating questionnaire respondents to reply at all. Those that do reply may have attitudes significantly different from those who do not. Some related problems of the investigation done may be put in terms of these questions:

- (1) Are the student samples representative of their faculty's graduates?

(2) Is the student sample as a whole (since it is homogeneous) representative of those students being interviewed at the University of Alberta?

(3) Is the student sample representative of all the students interviewed by the recruiters responding?

In answer to (1), the samples constituted thirty per cent or more of the graduating classes in question; it would seem reasonable to assume that they were representative.

In answer to (2), it is indeed difficult to say. One hundred and fifty respondents constitute a fair-sized sample of any population. Since engineering and commerce students are the most active interviewees (according to the University of Alberta National Employment Service Office), the student sample could reasonably be called representative of the population of students interviewed by campus recruiters.

In answer to (3), the only possibly pertinent bits of information are the responses from students in the sample from other parts of Canada (who numbered too few to yield significant figures), and the results of Bunin and Odegaard and Bunin and Scheyer gained from graduating seniors at the University of Washington.² The American

²Ibid.; and Sanford M. Bunin and Carl J. Odegaard,

students ranked the factors similarly. Hence there is some slight evidence to suggest that the sample is representative of the population of question (3), and no evidence to suggest that it is not.

There is no way of directly assessing the attitudes of those students who received questionnaires but did not reply. Two members of the National Employment Service staff intuitively believed that those who did not reply to the questionnaires would be the same people who failed to register for interviews. If this were true, of course, their views would have no objective impact on the information input to the interviewers. However, these same two National Employment Service employees essayed specifically that arts students did not generally use the facilities of their offices, and therefore would not reply satisfactorily to the questionnaire. The response rate for the arts students was not significantly different from that for the engineering students.

Regarding the primary objectives of the investigation (inferences concerning the information exchanges occurring in placement interviews) it is necessary to point out a number of difficulties. The question of whether or

Relative Importance of Job Factors to Graduating College Seniors," University of Washington Business Review, April, 1961, 20, 50-56.

not recruiters and students shared meanings in reading the factors arises; but it is important in a different sense. It is not logically necessary for the factors to have face validity. It is only necessary that recruiters and students understand the same things by them. This condition is as indeterminate as the condition of face validity, of course. In effect, it is a more unlikely condition to obtain when it is considered that to specify the meaning to be shared, we must probably assume face validity for the factors, and then assume further that the two groups accept the meaning implied by the factors' face validity. That is, if the statement says, "This is white," for the primary objectives of the study the parties³ do not logically have to share the meaning "white" for the extent of their agreement to be measured. They may agree on the statement meaning "black" or "green". A measure of their agreement could be valid empirically. However, the range of possible interpretations of the decision factors is such that for any sort of meaningful comparison, we must assume that the parties agree on the meaning suggested directly by the factors--we must assume that the factors have face validity, for this is the only possible identifiable meaning we may infer the parties'

³Recruiter and student respondents to the questionnaire.

agreement on.

There is an important possibility that the factors to be ranked victimize the study to "inter-ocular trauma". That is, their relative appeals are so obvious, they "hit you between the eyes". By simply responding to common value systems, the students and the recruiters (without recourse to knowledge of students gained in interviews) could tend to rank the factors in a strikingly similar manner. The recruiter might be saying to himself, "anybody would choose 'opportunity to do work I prefer' over 'size of beginning salary'." The importance of such an effect can in no way be gauged by the study done. If the findings are to be suspect in any way for the extremely high significance levels noted, this qualification would be most important in the author's view.

The students could be responding to an "interview set" when they rank the factors. That is, the topics they show interest in during job interviews could be those they feel they are supposed to be interested in, rather than those they are actually interested in. The interview therefore is dominated by discussion of these considerations. A related bias might be the interview's own structuring favouring some topics more than others. Resulting would be a spurious agreement between students and recruiters regarding what is important to the student in seeking a

position with a firm. Both effects (set and artificiality of interview structure) would undermine face validity and impair the achievement of the secondary objectives of this study.

Recruiters could be aware of the interests of students and still be unable or unwilling to use this knowledge in interviewing practice. It cannot be reasoned, therefore, that the interviewer who knew what students considered important would necessarily tend to discuss these things earlier on in the interview, therefore insuring their inclusion and a more productive information exchange. The question of whether or not these topics are in fact discussed must be referred to analysis of tape recordings.

An awareness of what students in general are interested in could be dysfunctional in an interview with an atypical student. An advantage of the interview form is its flexibility for dealing with individual differences. Perhaps it is more important for the effective recruiter/interviewer to be capable of ferreting out the particular student's interests and dealing with them. The twenty- to thirty-minute campus interview may not reward this sort of approach, of course.

No statistical measure was taken of the variation in ranking of particular factors. The two highest-ranked

and the two lowest-ranked appeared to be very stable, however. Only very rarely would one of the former be ranked beyond seventh, or one of the latter higher than eighth.

II. LIKELY AVENUES FOR FURTHER RESEARCH

The present research design does not seem to have much promise for accomplishing the objectives Bunin and Scheyer set out for a student/recruiter ranking of job factors comparison. That is, "The information obtained can be used to evaluate current practices, develop training programs for interviewers, and furnish a basis for further research and evaluation of campus interviewing."⁴

A sound basis for further research will probably only be forthcoming from investigation of first-order phenomena. Observation of actual interviews will likely form the foundation for knowledge of campus interviewing. The complex distortions involved in inferring interview happenings from second or third order observation weakens this information's usefulness in understanding.

The accuracy with which non-interviewers can guess student rankings could be determined easily. The ranking question, No. 7, given the recruiters, could be given to a control group of non-interviewers. If they were able to

⁴Bunin and Scheyer, op. cit., p. 51.

rank the factors according to essentially the same standards the students were using, the invalidity of the factors for the primary objective of this study would be established.

A great deal of research has been done on interviews with very little useful or objective knowledge resulting. The most promising approach to understanding of the placement interview appears to be the content analysis techniques being used with transcripts of recorded interviews. Webster's colleagues and former students seem to be at the forefront of this work.⁵ The premise in this enterprise is that we must learn what actually occurs in the interview before we may understand it. What somebody says happened is not good enough.

At Temple University, a team of clinical psychologists and psychiatrists headed by A. E. Scheflen and R. L. Birdwhistell are filming psychiatric interviews and analyzing the results.⁶ If satisfactory techniques can be worked out, more attention will probably be devoted to

⁵ Edward C. Webster, in collaboration with C. W. Anderson, Areta H. Crowell, Patricia Rowe, B. M. Springbett, and D. Sydiah, Decision Making in the Employment Interview (Industrial Relations Centre, McGill University. Montreal: Eagle Publishing Co., Ltd., 1964).

⁶ Albert E. Scheflen, A Psychotherapy of Schizophrenia: Direct Analysis (Springfield, Illinois: Charles C. Thomas, Publisher, 1961), pp. 9-13.

this type of research. Of course it holds more promise for the understanding of interviews than present techniques-- it is capable of assessing communications through more than the one sensory modality of sound.

The decision factors used do seem to have tolerable face validity. If they do in fact, the discrepant rankings of "people I will be working with" should be investigated. The present general research design with a more discriminating set of factors could be used to further assess this effect.

In brief, the secondary objectives of the study may be served by a research design of this type using a different instrument. The primary objectives probably cannot be served until some future time when the connection between what actually occurs in an interview and what individuals report as occurring is better understood.

CHAPTER VII

SUMMARY OF FINDINGS AND CONCLUSIONS OF THE EMPIRICAL INVESTIGATION

The primary objectives of the empirical study concerned the quality of information exchange in the college placement interview. Specifically, factors considered by students in choosing positions with firms might be made known to recruiters largely through the college placement interview. If recruiters had a good idea of what students considered important among these factors, and if experienced interviewers had a better idea than inexperienced interviewers, then the placement interview could be effectively conveying a piece of information from student to recruiter.

To test this reasoning, a number of students ranked fifteen factors to be considered in evaluating a position with a firm. A number of recruiters, both experienced and relatively inexperienced in placement interviewing, ranked the factors in what they believed was the order of importance to the students. Qualitative and statistical comparisons of the results showed remarkable similarities between the two rankings. Experienced interviewers did no better than inexperienced interviewers.

The extremely high agreement among all sub-groups on the rankings suggested that the factors used were not capable of sufficient discrimination. A further implication was that the recruiter judges were not preponderantly using information perceived in and retained from the interview in making their judgments.

The effectiveness of the study in the pursuit of its primary objectives was critically undermined by the unforeseen uniformity with which practically all parties ranked the factors, and the consequent inferred inability of the factors to adequately discriminate those well-informed of student attitudes and interests as they would be expressed or implied in the college placement interview.

The secondary objectives of the empirical study concerned the determination of what graduating seniors at the University of Alberta do consider in evaluating a position with a firm. Face validity and shared meaning of the factors are necessary for valid conclusions from the ranking data. The extremely high order of agreement among the groups on the rankings indirectly indicates a probable high order of agreement on the meanings of the factors, which in turn indicates face validity of the factors.

We may say with some confidence, then, that graduating seniors, in evaluating a position with a firm, are generally more concerned with decision factors like

"opportunity to do work I prefer", "chances for position advancement", "size of beginning salary", "types of training programs offered by firm", and "people I will be working with", than they are with "fringe benefits offered", "attractive physical environment", "fame or status of firm", "title of job or position", and "activities of firm in community service".

In line with the secondary objectives of the study, it might also be observed that college recruiters appear to have a good idea of what the graduating senior considers important in evaluating a position with a firm.

BIBLIOGRAPHY

BIBLIOGRAPHY

A. BOOKS

Abercrombie, M. L. Johnson. The Anatomy of Judgment: An Investigation into the Processes of Perception and Reasoning. London: Hutchinson & Co. Ltd., 1960.

Bales, R. F. Interaction Process Analysis: A Method for the Study of Small Groups. Cambridge: Addison-Wesley, 1960.

Beach, Dale S. Personnel: The Management of People at Work. New York: The Macmillan Company, 1965.

Bellows, Roger. Psychology of Personnel in Business and Industry. Englewood Cliffs, N. J.: Prentice-Hall, Inc., 1961.

_____, and M. Frances Estep. Employment Psychology: The Interview. New York: Rinehart & Company, 1954.

Bingham, Walter Van Dyke and Bruce Victor Moore. How to Interview. New York: Harper & Brothers Publishers, 1941.

_____, and John W. Gustad. How to Interview. New York: Harper & Brothers, 1959.

Carver, Major H. S. M. Personnel Selection in the Canadian Army. Ottawa: Directorate of Personnel Selection, National Defence Headquarters, 1945.

Cronbach, Lee J. Essentials of Psychological Testing. 2nd ed. New York: Harper & Brothers Publishers, 1960.

Fear, Richard A. The Evaluation Interview: Predicting Job Performance in Business and Industry. New York: McGraw Hill Book Company, Inc., 1958.

Garrett, Annett. Interviewing: Its Principles and Methods. New York: Family Welfare Association of America, 1942.

Ghiselli, Edwin E . and Clarence W. Brown. Personnel and Industrial Psychology. New York: McGraw-Hill Book Company, Inc., 1948.

Guilford, J. P. Psychometric Methods. New York: McGraw-Hill Book Company, Inc., 1954.

Gulliksen, H. Theory of Mental Tests. New York: John Wiley & Sons, Inc., 1950.

Helsel, Janet. A Study of Employment Interviewing Practices Used in the Selection of Office Personnel with Implications for Business Teachers. Doctoral Thesis, Northwestern University, Evanston, Illinois, 1959. Ann Arbor: University Microfilms, Inc., 1966.

Hollingworth, H. L. Judging Human Character. New York: D. Appleton & Co., 1922.

_____. Vocational Psychology and Character Analysis. New York: D. Appleton & Co., 1929.

Hovland, Carl I. The Order of Presentation in Persuasion. New Haven: Yale University Press, 1957.

Kahn, Robert L. and Charles F. Cannell. The Dynamics of Interviewing. New York: John Wiley & Sons, Inc., 1960.

Kelly, Roy Wilmarth. Hiring the Worker. New York: The Engineering Magazine Co., 1919.

Lipsett, Laurence, Frank P. Rodgers and Harold M. Kentner. Personnel Selection and Recruitment. Boston: Allyn and Bacon, Inc., 1964.

Lopez, Felix M. Personnel Interviewing: Theory and Practice. New York: McGraw-Hill Book Company, 1965.

Maier, N. R. F. The Appraisal Interview: Objectives, Methods and Skills. New York: John Wiley & Sons, Inc., 1958.

Mandell, Milton M. The Selection Process: Choosing the Right Man for the Job. New York: American Management Association, 1964.

Mueller, Kate Hevner. Student Personnel Work in Higher Education. Boston: Houghton-Mifflin Company, 1961.

Oldfield, R. C. The Psychology of the Interview. 4th ed.
London: Methuen & Co. Ltd., 1951.

Pigors, Paul J. W. and Charles A. Myers. Personnel
Administration: A Point of View and a Method. New
York: McGraw-Hill Book Company, 1965.

Pittenger, Robert E., Charles F. Hockett and John H.
Danehy. The First Five Minutes. Ithaca, New York:
Paul Marineau, Publisher, 1960.

Richardson, Stephen A., Barbara Snell Dohnrenweld and David
Klein. Interviewing: Its Forms and Functions. New
York: Basic Books, Inc., 1965.

Rogers, Carl R. Client-Centered Therapy: Its Current
Practice, Implications, and Theory. Boston: Houghton
Mifflin Company, 1951.

Ryan, Thomas Arthur and Patricia Cain Smith, Principles of
Industrial Psychology. New York: The Ronald Press
Company, 1954

Scheflen, Albert E. A Psychotherapy of Schizophrenia:
Direct Analysis. Springfield, Illinois: Charles
C. Thomas, Publisher, 1961.

Scott, W. D., R. D. Clothier and W. R. Spriegel. Personnel
Management. New York: McGraw-Hill Book Company, 1961.

Sidney, Elizabeth and Margaret Brown. The Skills of
Interviewing. London: Tavistock Publications (1959)
Limited, 1961.

Siegel, Sidney. Nonparametric Statistics: For the
Behavioral Sciences. New York: McGraw-Hill Book
Company, Inc., 1956.

Strauss, George and Leonard R. Sayles. Personnel: The
Human Problems of Management. Englewood Cliffs, New
Jersey: Prentice-Hall, Inc., 1960.

Thayer, Lee O. Administrative Communication. Homewood,
Illinois: Richard D Irwin, 1961.

Thorndike, Edward L. An Introduction to the Theory of
Mental and Social Measurements. Teachers College,
Columbia University. Lancaster, Pa.: The New Era
Printing Company, 1916.

Torre, Mottram, ed. The Selection of Personnel for International Service. New York: World Federation for Mental Health, 1963

Vernon, Philip E. Personality Assessment: A Critical Survey. London: Methuen & Co. Ltd., 1964.

_____. Personality Tests and Assessments. New York: Henry Holt and Company, 1953.

Vitelles, M. S. Industrial Psychology. New York: W. W. Norton, 1932.

Webster, Edward C., in collaboration with C. W. Anderson, Areta H. Crowell, Patricia Rowe, B. M. Springbett and D. Sydiah. Decision Making in the Employment Interview. Industrial Relations Centre, McGill University. Montreal: The Eagle Publishing Co. Ltd., 1964.

Wiksell, Wesley. Do They Understand You? New York: The Macmillan Company, 1960.

B. PUBLICATIONS OF GOVERNMENTS AND LEARNED SOCIETIES

Bennet, George K. "What Do We Really Know About Executive Selection?" Looking Ahead in Labor Relations. American Management Association Management Report No. 50. New York: American Management Association, 1960.

National Industrial Conference Board, Inc. Employment of the College Graduate. Studies in Personnel Policy, No. 152. New York: National Industrial Conference Board, Inc., 1956.

National Industrial Conference Board, Inc. Recruiting and Selecting Employees. Studies in Personnel Policy, No. 144. New York: National Industrial Conference Board, Inc., 1954.

United States Office of Strategic Services. Assessment of Men: Selection of Personnel for the Office of Strategic Services. New York: Rinehart & Company, Inc., 1948.

C. PERIODICALS

Anderson, C. W. "The Relation Between Speaking Times and Decision in the Employment Interview." Journal of Applied Psychology, 1960, 44, 267-268.

Bass, B. M. "Further Evidence on the Dynamic Character of Criteria." Personnel Psychology, 1961, 14, 93-97.

Bassett, Glenn A. "Manager and Candidate: Interview or Guessing Game?" Personnel, 1965, 42, 8-16.

Bell, Forest O., Alvin L. Hoff and Kenneth B. Hoyt. "A Comparison of Three Approaches to Criterion Measurement." Journal of Applied Psychology. 1963, 47, 416-418.

Bolster, B. I., and B. M. Springbett. "The Reaction of Interviewers to Favourable and Unfavourable Information." Journal of Applied Psychology, 1961, 45, 97-103.

Borgatta, E. F., and R. F. Bales. "The Consistency of Subject Behavior and the Reliability of Scoring in Interaction Process Analysis." American Sociological Review, 1953, 18, 566-569.

Bruner, J. W. "On Perceptual Readiness." Psychological Review, 1957, 64, 123-152.

Bunin, Sanford M. and Carl J. Odegaard. "Relative Importance of Job Factors to Graduating College Seniors." University of Washington Business Review, April, 1961, 20, 50-56.

_____, and Gretchen Scheyer. "Campus Recruiters and Graduating Seniors." University of Washington Business Review, June, 1961, 20, 50-59.

Burch, Wallace. "Conducting a Productive Interview." Personnel Journal, 1962, 41, 285-286.

Butterfield, Earl C. and Sue A. Warren. "Prediction of Attendant Tenure." Journal of Applied Psychology, 1963, 47, 101-103.

Campbell, J. T., E. P. Prien, and L. G. Brailey. "Predicting Performance Evaluations.: Personnel Psychology, 1960, 13, 435-440.

Carr, A. M. "An Inner View of the Interview." Personnel Journal, 1965, 44, 193-197.

Carter, Thomas M. "The Placement of Qualified College Graduates in Appropriate Careers." Personnel Journal, 1963, 43, 72-77.

Chapple, E. D. "The Interaction Chronograph: Its Evolution and Present Application." Personnel, 1949, 25, 295-307.

Christensen, E. M. "In-Plant Interviewing of College Applicants." Personnel Journal, 1964, 43, 189-193.

Crissy, W. J. E. "The Employment Interview: Research Areas, Methods and Results." Personnel Psychology, 1952, 5, 73-85.

Daniels, H. E. and J. L. Otis. "A Method for Analyzing Employment Interviews." Personnel Psychology, 1950, 3, 425-444.

Denton, J. C. "The Validation of Interview-Type Data." Personnel Psychology, 1964, 17, 281-287.

Dipboye, W. J. "Analysis of Counselor Style by Discussion Units." Journal of Counseling Psychology, 1954, 1, 21-26.

Ebel, Robert L. "Must All Tests be Valid?" American Psychologist, 1961, 16, 640-647.

Ghiselli, Edwin E. "Worker Selection: Concepts and Problems." Personnel Psychology, 1956, 9, 1-16.

_____, and M. Haire. "The Validation of Selection Tests in the Light of the Dynamic Character of Criteria." Personnel Psychology, 1960, 13, 225-231.

Glaser, Robert, Paul A. Schwarz and John C. Flanagan. "The Contribution of Interview and Situational Performance Procedures to the Selection of Supervisory Personnel." Journal of Applied Psychology, 1958, 42, 69-73.

Gomberg, Mandel and Arthur Farber. "The Balance Sheet of the Future." The Accounting Review, 1964, 39, 615-617.

Guion, Robert M. "Criterion Measurement and Personnel Judgments." Personnel Psychology, 1961, 14, 141-149.

Hill, George P. "From the Interviewer's Side of the Desk." Personnel Journal, 1962, 41, 115-116.

Hodgson, Richard W. "Personality Appraisal of Technical and Professional Applicants." Personnel Psychology, 1964, 17, 167-187.

Johnson, Donald M. "Reanalysis of Experimental Halo Effect." Journal of Applied Psychology, 1963, 47, 46-47.

_____, and Robert N. Vidulich. "Experimental Manipulation of the Halo Effect." Journal of Applied Psychology, 1956, 40, 130-134.

Kirk, E. Bruce. "Appraisee Participation in Performance Interviews." Personnel Journal, 1965, 44, 22-25.

Magee, Richard H. "The Employment Interview--Techniques of Questioning." Personnel Journal, 1962, 41, 241-245.

Matarazzo, Ruth G., J. D. Matarazzo, G. Saslow and Jeanne S. Phillips. "Psychological Test and Organismic Correlates of Interviewer Interaction Patterns." Journal of Abnormal and Social Psychology, 1958, 56, 329-338.

Mayfield, Eugene C. "The Selection Interview: A Re-Evaluation of Published Research." Personnel Psychology, 1964, 17, 239-260.

Muthard, J. E. "The Relative Effectiveness of Larger Units Used in Interview Analysis." Journal of Consulting Psychology, 1953, 17, 184-188.

McCord, Mac. "Observations in Validity Criteria: A Problem in Psychological Evaluation." Personnel Journal, 1963, 42, 286-288.

Rice, S. A. "Contagious Bias in the Interview: A Methodological Inquiry." American Journal of Sociology, 1929, 35, 420-423.

Robinson, Francis P. "The Dynamics of Communication in Counseling." Journal of Counseling Psychology, 1955, 2, 163-169.

Ronan, W. W. "A Factor Analysis of Eleven Job Performance Measures." Personnel Psychology, 1963, 16, 225-267.

Rowe, Patricia M. "Individual Differences in Selection Decision." Journal of Applied Psychology, 1963, 47, 304-307.

Smith, G. "Visual Perception: An Event Over Time." Psychological Review, 1957, 64, 306-313.

Springbett, B. M. "Factors Affecting the Final Decision in the Employment Interview." Canadian Journal of Psychology, 1958, 12, 13-22.

Sydiaha, Daniel. "Bales Interaction Process Analysis of Personnel Selection Interviews." Journal of Applied Psychology, 1961, 45, 393-401.

_____. "Interviewer Consistency in the Use of Empathic Models in Personnel Selection." Journal of Applied Psychology, 1962, 46, 344-349.

_____. "On the Equivalence of Clinical and Statistical Methods." Journal of Applied Psychology, 1959, 43, 395-401.

Symonds, P. M. "Notes on Rating." Journal of Applied Psychology, 1925, 9, 188-195.

Thorndike, Edward L. "A Constant Error in Psychological Ratings." Journal of Applied Psychology, 1920, 4, 25-29.

Trankell, Arne. "The Psychologist as an Instrument of Prediction." Journal of Applied Psychology, 1959, 43, 170-175.

Uhrbrock, Richard S. "The Personnel Interview." Personnel Psychology, 1948, 1, 273-302.

Wagner, Ralph F. "The Employment Interview: A Critical Summary." Personnel Psychology, 1949, 2, 17-46.

Webster, Edward C. "Decision Making in the Employment Interview." Personnel Administration, 1959, 22, 15-22.

Woodworth, R. S. "Psychological Experience with the Interview." Journal of Personnel Research, 1925, 4, 162-165.

Worbois, S. M. "Predicting Performance of Substation Operators." Journal of Applied Psychology, 1951, 31, 15-19.

Yonge, K. A. "The Value of the Interview: An Orientation and a Pilot Study." Journal of Applied Psychology, 1956, 40, 25-31.

D. ARTICLES IN COLLECTIONS

England, G. W. and D. G. Patterson. "Selection and Placement: The Past Ten Years." in H. G. Heneman, Jr., et al, (eds.), Employment Relations Research. New York: Harper & Row, Publishers, 1962.

Saltonstall, Robert. "What Employees Want from Their Work." In Edward C. Bursk (ed.), Human Relations for Management. New York: Harper & Brothers, 1950.

Dunnette, Marvin D. "Personnel Management." in P. R. Farnsworth, O. McNemar and Q. McNemar (eds.), Annual Review of Psychology, 1962, 13. Palo Alto: Annual Reviews, Inc., 1962.

E. NEWSPAPERS

Martin, Richard. "The Grad Hunt: Recruiters Seek to Hire More Students as Draft Cuts Down the Supply." The Wall Street Journal, Vol. XLVI, No. 103, Wednesday, March 9, 1966.

APPENDICES

APPENDIX A
QUESTIONNAIRES AND ACCOMPANYING MATERIALS

UNIVERSITY PLACEMENT STUDY

University of Alberta
Edmonton, Alberta

1. Date of Birth: _____

2. Place of Birth: _____

3. Sex: Male _____

Female _____

4. Marital Status: Single _____

Engaged to be married _____

Married _____

Separated, widowed, or divorced _____

5. Education:

| <u>Complete Names of High Schools Attended</u> | <u>Dates:</u> <u>From</u> _____ | <u>To</u> _____ | <u>Location of School (City and Province)</u> _____ |
|--|------------------------------------|-----------------|---|
|--|------------------------------------|-----------------|---|

| | | | |
|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

| <u>List all Universities and/or Colleges attended</u> | <u>Dates:</u> <u>From</u> _____ | <u>To</u> _____ | <u>List Field of Specialization or Obtained Major Program:</u> _____ |
|---|------------------------------------|-----------------|--|
|---|------------------------------------|-----------------|--|

| | | | |
|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

6. In what occupations have your parents (or guardians) been engaged? Be as specific as possible.

List Occupations:

Mother (or Female Guardian):

Approximate Dates

From: _____ To: _____

Father (or Male Guardian):

From: _____ To: _____

7. Please indicate the last level of academic education of your parents (guardians). Check the appropriate blanks:

Mother Father

Did not complete elementary grades

_____ _____

Completed elementary school

_____ _____

Completed Junior high school

_____ _____

Completed Senior high school

_____ _____

Completed Some University

_____ _____

Holds a university degree

_____ _____

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8. Please note any technical and/or vocational training completed by your parents (or guardians). Be specific in describing its nature.

Mother: _____

Father: _____

9. What has been the approximate average ANNUAL income of the principal wage-earner among your parents (guardians) during the two most recent five-year periods?

1960 to 1965: \$ 0 to \$ 5,000 _____

\$ 5,000 to \$ 10,000 _____

\$10,000 or more _____

1955 to 1960: \$ 0 to \$ 5,000 _____

\$ 5,000 to \$ 10,000 _____

\$10,000 or more _____

10. In what organizations have you held membership?

11. In what organizations have your parents (guardians) held membership?

12. Following are 15 factors to be considered in evaluating a position with a firm. Please rank them, from 1st to 15th, in their order of importance to you:

| | <u>RANK</u> |
|---|-------------|
| A. Size of firm or company | ____ |
| B. Geographical location of job | ____ |
| C. Size of beginning salary | ____ |
| D. Opportunity to do work I prefer | ____ |
| E. People I will be working with | ____ |
| F. Fame or status of firm | ____ |
| G. Chances for position advancement | ____ |
| H. Types of training programs offered by firm | ____ |
| I. Product or service offered by firm | ____ |
| J. Activities of firm in community service | ____ |
| K. Title of job or position | ____ |
| L. Attractive physical environment | ____ |
| M. Behavior of recruiters or employment people I meet | ____ |
| N. Fringe benefits offered | ____ |
| O. Status of firm within its own field | ____ |

13. Are there any factors which you consider important that are not on the foregoing list?

14. Who has influenced you most in your choice of career? Please describe his (her, their) relationship(s) to you.

AN
Hu Harries

VISION CHAIRMEN
A. O. Saffel
B. R. Rollins
L. C. Leitch
C. A. Lee

RETARY
R. A. Denham



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FACULTY OF BUSINESS ADMINISTRATION AND COMMERCE
Division of Graduate Studies

EDMONTON, CANADA

July 14th, 1965

Mr.

Dear

The Faculty of Business Administration and Commerce has undertaken research regarding the recruitment of graduating seniors. You may help by completing the enclosed questionnaire and returning it in the enclosed stamped, addressed envelope. Replies will be anonymous; please do not affix your name to the questionnaire.

Yours truly,

enclosures (2)

J. W. Ondrack

UNIVERSITY PLACEMENT STUDY

Graduate Studies
Faculty of Business Administration and Commerce
University of Alberta

The following questions are designed to elicit information necessary to a study presently being done at the University of Alberta on campus recruiting of graduating seniors. Results of the study should be available for publication by early 1966.

1. What company are you with? Please specify branch or division so that the size of the entity which you represent when recruiting may be determined with respect to sales, assets, number of employees, etc.

2. What is your position with the company? Again, please be specific. A short note on the duties your position entails might be helpful.

3. Have you interviewed graduating seniors in a recruiting situation?

4. What other experience have you had with recruitment of graduating seniors?

5. What do you feel the graduating senior looks for in a prospective job? That is, what characteristics of the job would most influence him to take it?

Page 3

6. Following are fifteen factors to be considered by students in evaluating a job. Please rank them, from first to fifteenth, in their order of importance to the students. That is, what order do you feel most students would arrive at?

| | <u>Rank</u> |
|---|-------------|
| A. Size of firm or company | ____ |
| B. Geographical location of job | ____ |
| C. Size of beginning salary | ____ |
| D. Opportunity to do work I prefer | ____ |
| E. People I will be working with | ____ |
| F. Fame or status of firm | ____ |
| G. Chances for position advancement | ____ |
| H. Types of training programs offered by firm | ____ |
| I. Product or service offered by firm | ____ |
| J. Activities of firm in community service | ____ |
| K. Title of job or position | ____ |
| L. Attractive physical environment | ____ |
| M. Behavior of recruiters or employment people I meet | ____ |
| N. Fringe benefits offered | ____ |
| O. Status of firm within its own field | ____ |
| 7. Are there any job factors which you consider important that are not on the foregoing list? | |

UNIVERSITY PLACEMENT STUDY

Graduate Studies
Faculty of Business Administration and Commerce
University of Alberta

The following questions are designed to elicit information necessary to a study presently being done at the University of Alberta on campus recruiting of graduating seniors. Results of the study should be available for publication by mid-1966.

1. What company are you with? Please specify branch or division so that the size of the entity you represent when recruiting may be determined with respect to sales, assets, number of employees, etc.

2. What is your position with the company? Again, please be specific. A short note on the duties your position entails might be helpful.

3. Have you interviewed graduating seniors in a recruiting situation?

4. How many graduating seniors do you expect to interview this year:

In total? _____

At the University of Alberta? _____

Page 2

5. Have you had previous experience with recruitment of graduating seniors? If so, please describe your role in this recruiting.

6. What do you feel the graduating senior looks for in a prospective job? That is, what characteristics of the job would most influence him to take it?

Page 3

7. Following are fifteen factors to be considered by students in evaluating a job. Please rank them, from first to fifteenth, in their order of importance to the students. That is, what order do you feel most students would arrive at?

Rank

- A. Size of firm or company _____
- B. Geographical location of job _____
- C. Size of beginning salary _____
- D. Opportunity to do work I prefer _____
- E. People I will be working with _____
- F. Fame or status of firm _____
- G. Chances for position advancement _____
- H. Types of training programs offered by firm _____
- I. Product or service offered by firm _____
- J. Activities of firm in community service _____
- K. Title of job or position _____
- L. Attractive physical environment _____
- M. Behaviour of recruiters or employment people I meet _____
- N. Fringe benefits offered _____
- O. Status of firm within its own field _____

8. Are there any job factors which you consider important that are not on the foregoing list?
-
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Hu Harries
D
ISION CHAIRMEN
A. O. Saffel
B. R. Rollins
L. C. Leitch
C. A. Lee
S
ETARY
R. A. Denham



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FACULTY OF BUSINESS ADMINISTRATION AND COMMERCE
Division of Graduate Studies

EDMONTON, CANADA

March 15th, 1966

Mr.

Dear

The Faculty of Business Administration and Commerce has undertaken research regarding the recruitment of graduating seniors. You may help by completing the enclosed questionnaire and returning it in the enclosed stamped, addressed envelope. Replies will be anonymous; please do not affix your name to the questionnaire.

Yours very truly,

enclosures (2)

J. W. Ondrack

UNIVERSITY OF ALBERTA
FACULTY OF BUSINESS ADMINISTRATION AND COMMERCE

March 11th, 1966

To: Fourth Year Students

From: Jack Ondrack, Graduate Studies

Please complete one of these and return it to
the receptionist. Thank you.



Hu Harries
TION CHAIMEN
A. O. Saffel
B. R. Rollins
L. C. Leitch
C. A. Lee
ETARY
R. A. Denham

FACULTY OF BUSINESS ADMINISTRATION AND COMMERCE
Division of Graduate Studies

EDMONTON, CANADA

March 17th, 1966

Dear

The Faculty of Business Administration and Commerce has undertaken research regarding the recruitment of graduating seniors. You may help by completing and returning, in the stamped, addressed envelope supplied, the enclosed questionnaire.

Replies will be anonymous; please do not affix your name to the questionnaire.

Thank you.

Yours truly,

encls. (2)

J. W. Ondrack

NATIONAL EMPLOYMENT SERVICE



UNIVERSITY OF ALBERTA

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STUDENT PLACEMENT OFFICE

Box 854,
University of Alberta,
Edmonton, Alberta,
1 March, 1966.

Dear Sir:

Please find enclosed questions on Campus recruiting of graduating seniors.

Mr. Jack Ondrack is doing this study in order to complete his required thesis for a M.B.A. degree at this University. A slightly different questionnaire is presently being completed by students. The results of the combined study should be available by June or July.

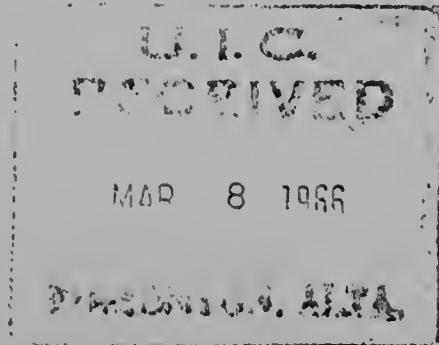
It would be of great assistance to Mr. Ondrack if you would complete the enclosed questionnaire in detail and return it to this office as soon as possible.

Thank you for your co-operation in this matter.

Yours very truly,

John E. LeMay,
Head, NES Student Placement Office.

Encl.



APPENDIX B
PRETEST DATA

TABLE XVIII

RANK ORDER OF JOB FACTORS - PRETEST STUDENT SAMPLE

 $k = 26$

Rank Factor

| | | |
|----|---|---|
| 1 | D | Opportunity to do work I prefer |
| 2 | G | Chances for position advancement |
| 3 | C | Size of beginning salary |
| 4 | H | Types of training programs offered by firm |
| 5 | E | People I will be working with |
| 6 | B | Geographical location of job |
| 7 | A | Size of firm or company |
| 8 | N | Fringe benefits offered |
| 9 | O | Status of firm within its own field |
| 10 | I | Product or service offered by firm |
| 11 | L | Attractive physical environment |
| 12 | M | Behaviour of recruiters or employment people I meet |
| 13 | F | Fame or status of firm |
| 14 | K | Title of job or position |
| 15 | J | Activities of firm in community service |

TABLE XIX

RANK ORDER OF JOB FACTORS - PRETEST RECRUITER SAMPLE

k = 38

| Rank | Factor | Description |
|------|--------|---|
| 1 | D | Opportunity to do work I prefer |
| 2 | G | Chances for position advancement |
| 3 | C | Size of beginning salary |
| 4 | H | Types of training programs offered by firm |
| 5 | B | Geographical location of job |
| 6 | A | Size of firm or company |
| 7 | O | Status of firm within its own field |
| 8 | M | Behaviour of recruiters or employment people I meet |
| 9 | F | Fame or status of firm |
| 10 | I | Product or service offered by firm |
| 11 | E | People I will be working with |
| 12 | K | Title of job or position |
| 13 | N | Fringe benefits offered |
| 14 | L | Attractive physical environment |
| 15 | J | Activities of firm in community service |

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